**THE CONNECTICUT PORTION**

**OF THE INTERSTATE RELIABILITY PROJECT**

**BY**

**THE CONNECTICUT LIGHT AND POWER COMPANY**

# VOLUME 2: ENVIRONMENTAL – WETLANDS/ WATERCOURSES REPORT

**DECEMBER 2011**

# INVENTORY AND DELINEATION OF WETLANDS AND WATERCOURSES

# ALONG THE CONNECTICUT PORTION

# OF THE

# INTERSTATE RELIABILITY PROJECT

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## 1.0 Introduction

This report provides a summary of the wetland and watercourse inventories and delineations conducted by AECOM Environment (AECOM) along the Connecticut portion of the proposed Interstate Reliability Project (Project). These delineations were designed to identify both federal and Connecticut jurisdictional water resources within the transmission line rights-of-way (ROWs) and on associated Project areas.

**Project Background and Location.** The Project is a series of proposed improvements to the electrical transmission systems in Connecticut, Rhode Island, and Massachusetts that would provide additional safe, reliable, and economic electric service to these states. The Project would also increase the utilities' ability to meet the growing demand for power and would ensure compliance with mandatory federal and regional reliability standards. The Connecticut Light and Power Company (CL&P) would construct, own, and operate the proposed Project facilities located in Connecticut. The proposed facilities in Rhode Island would be owned by the Narragansett Electric Company, and those in Massachusetts would be owned by The New England Power Company. The Narragansett Electric Company and The New England Power Company are wholly-owned subsidiaries of National Grid USA (National Grid). This report has been prepared in conjunction with CL&P's application to the Connecticut Siting Council (Council) and also in support of other environmental permit applications.

CL&P and National Grid are proposing the construction and operation of the new 345-kilovolt (kV) transmission lines and associated facilities, which would extend between Lebanon, Connecticut and Millbury, Massachusetts. In Connecticut, the new 345-kV transmission lines would be located adjacent to CL&P's existing 345-kV lines, extending between the Card Street Substation (Town of Lebanon), the Lake Road Switching Station (Town of Killingly), and the Connecticut/Rhode Island border in the Town of Thompson, Connecticut. Along this approximately 37-mile Proposed Route, the new 345-kV lines would traverse the municipalities of Lebanon, Columbia, Coventry, Mansfield, Chaplin, Hampton, Brooklyn, Pomfret, Killingly, Putnam, and Thompson.

Along the vast majority of the Proposed Route, the new 345-kV lines would be aligned within CL&P's existing transmission ROWs that generally average 300 feet in width. These existing

ROWs are occupied in part by existing overhead 345-kV lines (and in some locations other transmission and distribution lines), but include sufficient un-used space to accommodate the proposed lines. However, approximately 1.4 linear miles of the Proposed Route would cross two segments of federally-owned properties in the towns of Mansfield and Chaplin, where CL&P's existing ROW is only 150 feet wide. To align the new 345-kV line across these two segments, CL&P proposes the expansion of the ROW by the acquisition of approximately 11 additional acres of easement from the federal government.[1]

In the vicinity of the existing transmission lines along all of these ROWs, CL&P routinely conducts vegetation management to maintain scrub-shrub habitat, consistent with the operation of the overhead lines. Most of the vegetation along the un-used portions of the ROWs (including the planned location for the new 345-kV lines) is not managed, and is characterized by plant communities common in the Project region.

**Water Resource Studies.** On behalf of CL&P, AECOM conducted wetland and watercourse identification and delineations along the Connecticut portion of the Project and in the vicinity of the Card Street Substation.[2] Desktop analyses, as well as on-site field delineations, were employed to determine state and federal wetland boundaries. Resources consulted during the desktop analyses included the United States Geological Survey (USGS) topographic mapping, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping, Connecticut Department of Energy and Environmental Protection (CTDEEP) Wetland Soils Mapping, United States Department of Agriculture, Natural Resource Conservation Service (USDA/NRCS) Soil Surveys, and the USGS's National Hydrography Dataset (NHD).

The majority of the wetland and watercourse investigations were conducted from January through April, 2008 and again in April and May, 2011. These investigations encompassed the entire width of CL&P's existing ROWs along which the proposed 345-kV lines would be located (i.e., surveys included water resources along the vegetatively managed portions of the ROWs in

[1] Water resources were delineated within both the proposed 11-acre expansion area and CL&P's existing 150-foot-wide ROW. Along the 1.4 miles of 150-foot-wide ROW on the federally-owned properties, CL&P also has identified two design options that would minimize or avoid the need for additional easement expansion. The water resource studies for the existing ROW and the proposed 11-acre easement expansion encompass all areas along these two design options.

[2] Wetlands were delineated within 100 feet of the existing substation fence line, all on property owned by CL&P.

the vicinity of the existing transmission lines, as well as on the presently un-managed portions of the ROWs, where the new 345-kV lines would be aligned). In the spring of 2009 and 2011, field investigations were also performed on CL&P fee-owned property that may be used to access the ROWs, and along the two segments of the Proposed Route across federally-owned property (under the jurisdiction of the United States Army Corps of Engineers [USACE]) in the towns of Mansfield and Chaplin (also referred to as the Mansfield Hollow area).

In the fall of 2010 and spring of 2011, AECOM conducted field verification surveys to affirm the accuracy of the 2008 and 2009 wetland and watercourse delineations. Specifically, supplemental field investigations were conducted of the previously delineated wetlands to verify that the wetland determinations had not been affected by the passage of time and are in conformance with the USACE's October 2009 *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (*Regional Supplement*; USACE, 2009).

This report discusses the methods used to identify the wetlands and watercourses encountered along the existing CL&P ROWs within which the Proposed Route would be located, and summarizes the findings of the surveys. Tables listing all wetlands and watercourses identified during the course of the surveys are located in Appendix A. Appendices B and C contain the field data forms and representative wetland and watercourse photographs used to document the wetland and watercourse delineations in 2008; these data forms are organized by town. Appendices D and E contain the field data forms and representative wetland and watercourse photographs used to document the wetland and watercourse delineations in 2011 (also organized by town). Appendix F contains representative samples of hydric soil and wetland mapping resources reviewed as pre-survey information.

## 2.0 Wetland and Watercourse Regulations

AECOM soil and wetland scientists identified wetlands and watercourses subject to state or federal jurisdiction, based upon the Connecticut Inland Wetlands and Watercourses Act (Section 22a-36 through 45 of the Connecticut General Statutes) and the Federal Clean Water Act ([CWA]; 33 U.S.C. 1344). The Project does not cross any Navigable Waters of the United States Subject to Section 10 of the Rivers and Harbors Act (33 U.S.C. 403).

### 2.1 Section 404 – Clean Water Act

Wetlands, springs and other Waters of the United States are regulated under Section 404 of the CWA by the USACE (U.S. Environmental Protection Agency, 2006). Federal jurisdictional wetlands include interstate wetlands, wetlands adjacent (i.e., bordering, contiguous, or neighboring) to waters of the United States, and intrastate wetlands whose degradation or destruction could affect interstate or foreign commerce as per the application of the CWA. According to the 1987 *Corps of Engineers Wetland Delineation Manual* (1987 USACE Manual; Environmental Laboratory), areas must exhibit three distinct characteristics to be considered wetlands:

1. The prevalent vegetation must consist of plants adapted to life in hydric soil conditions. These species, due to morphological, physiological, and/or reproductive adaptations, can and do persist in anaerobic soil conditions;

2. Soils in wetlands must be classified as hydric or they must possess characteristics that are associated with reducing soil conditions; and

3. They must be inundated either permanently or periodically at mean water depths less than 6.6 feet (two meters) or the soil saturated at the surface for some time during the growing season of the prevalent vegetation.

Wetlands meeting these criteria are subject to federal jurisdiction under Section 404 of the CWA.

In October 2009, the USACE issued the *Regional Supplement*, which provides further guidance for wetland delineations in the northeastern United States. The *Regional Supplement* presents wetland indicators, delineation guidance, and other information specific to the Northcentral and Northeast Regions, supplementing the 1987 USACE Manual in some procedures, but superseding the 1987 USACE Manual in other procedures (i.e., such items as Hydrophytic Vegetation Indicators, Hydric Soil Indicators, Wetland Hydrology Indicators, Growing Season definition, and Hydrology Standard for Highly Disturbed or Problematic Wetland Situations). Indicators and procedures in the *Regional Supplement* are designed to identify wetlands as

defined jointly by the USACE (33 CFR 328.2) and the U.S. Environmental Protection Agency (40 CFR 230.3) and subject to regulation under Section 404 of the CWA.

### 2.2 Connecticut Inland Wetlands and Watercourses Act

Connecticut regulates work in and around inland wetlands under the Inland Wetlands and Watercourses Act (The Act). Typically, the state statutes are implemented through the Inland Wetlands and Watercourse Regulations as administered by the individual municipalities. However, the Council assumes this implementation role as part of the overall application review process for energy facilities, including this Project.

Under Section 2 of The Act, a wetland is defined as "land, including submerged land…which consists of poorly drained, very poorly drained, alluvial and floodplain soils as defined by the National Cooperative Soils Survey. Such areas may include filled, graded or excavated sites which possess an aquic (saturated) moisture regime as defined by the United States Department of Agriculture (USDA) Cooperative Soil Survey." As written, the statute assigns no bearing to vegetation when performing wetland delineations. According to the CTDEEP website, approximately 17 percent of the state's land area is comprised of wetlands under the Connecticut wetland definition; however, "under the federal definition only roughly half of this same area would be classified as wetlands" (CTDEEP, 2011).

Watercourses are defined in The Act as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." The Act defines Intermittent watercourses as having a defined permanent channel bed and bank and the occurrence of two of the following: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration of longer than a particular storm incident, or C) the presence of hydrophytic vegetation.

## 3.0 Wetland Delineation Procedures

The wetland delineation methodologies outlined in the 1987 USACE Manual, the New England District Wetland Delineation Datasheet and Supplemental Information (CENAE-R-PT Version

9/1/04) were initially used for the wetland and watercourse investigations conducted from January through April, 2008. In addition, the Connecticut Inland Wetlands and Watercourses Act criteria were used to identify and delineate wetlands and watercourses along CL&P's existing ROWs. In the fall of 2010 and spring of 2011, AECOM performed supplemental surveys of wetlands and watercourses along CL&P's existing ROWs in order to verify that the previously delineated wetlands comply with the *Regional Supplement* and associated Wetland Determination Data Form, and also to identify and assess whether any substantial changes had occurred to wetland boundaries or characteristics since the completion of the 2008 wetland delineations. The study methods included both on-site field investigations and off-site analysis to determine the wetland and watercourse resource areas proximate to the proposed Project.

In accordance with the 1987 USACE Manual, and the *Regional Supplement,* hydrophytic vegetation, hydric soils, and wetland hydrology must all be present for a wetland to be subject to jurisdiction under Section 404 of the CWA. Both state and federal methodologies were employed in the field during the delineations.

### 3.1 Pre-Survey Desktop Investigations

Prior to the commencement of field surveys, AECOM reviewed information from multiple sources to determine the potential extent of wetlands within the survey areas. Pre-survey information reviewed included: USGS topographical quadrangles, USGS NHD, NWI Maps, USDA/NRCS – Web Soil Surveys, and CTDEEP online wetland mapping services. Examples of these database and mapping resources are provided in Figures 1 through 3 in Appendix F.

### 3.2 Field Surveys

AECOM soil and wetland scientists conducted the 2008 and 2009 field surveys of the Project area in accordance with the 1987 USACE Manual and the State of Connecticut Inland Wetlands and Watercourses Act. The subsequent 2010 and 2011 investigations were performed in accordance with the 1987 USACE Manual and the *Regional Supplement*. Vegetation, soils, and hydrology data were assessed during the field surveys to determine if the three wetland parameters described above were satisfied for each potential wetland area. The "top of bank"

was used to demarcate the limits of a watercourse when no wetlands were adjacent to the channel.

During the field investigations along the ROWs, the soil and wetland scientists identified the boundary between the water resource (wetland and/or watercourse) and the upland area, and delineated the boundary with survey flagging. Wetlands were delineated in the field with pink survey flagging hung on vegetation at approximately 15 to 30 foot intervals, while watercourses were delineated with blue flagging. Documentation to confirm the wetland boundaries was taken at specific locations for each wetland area and wetland resource field data summary sheets were completed for each wetland and watercourse delineated (see Appendix B and D). Each wetland and watercourse was given a unique (Project-specific) alphanumeric designation and these assigned designations were used to identify the wetlands and watercourses on the associated Project mapping. Appendices C and E include representative photographs taken during the delineations.

The specific methods for characterizing and evaluating vegetation, hydrology, and soils for determination for the presence or absence of a wetland were performed as follows:

> *Soils:* At the center of each data plot, the soil and wetland scientists completed borings with a hand-held auger to depths necessary to accurately determine a soil's hydric status (typically 18 to 24 inches below ground surface). The information collected for each soil profile included soil horizons, depth, texture, color, and the presence or absence of redoximorphic features (mottles and other features). Colors of the soil matrix and mottles were identified using Munsell Soil Color Charts. All hydric soil determinations in 2008 and 2009 were based on criteria established in the 1987 USACE Manual (Environmental Laboratory, 1987), along with *Field Indicators of Hydric Soils in the United States* (NRCS, 2006), *Field Indicators for Identifying Hydric Soils in New England* (NEIWPCC, 2004). During the 2010-2011 surveys, the *Regional Supplement* (USACE, 2009) was used in addition to the aforementioned. Additionally, the presence of any saturation and/or standing water encountered during the soil profile description was noted.

*Vegetation:* Species abundance in both upland and wetland communities were visually estimated. Dominant trees and shrubs/saplings were recorded within a 30-foot and 15-foot radius, respectively, from the center of each documentation plot. Woody vines were recorded within a 30-foot radius of the plot. Dominant herbaceous vegetation was recorded within a 5-foot radius of the plot. The indicator status of each species was identified using the *National List of Plant Species That Occur in Wetlands, Region 1-Northeast* (Resource Management Group 1999). Hydrophytic vegetation was determined to be prevalent when greater than 50 percent of the dominant species were classified as having a wetland indicator status of facultative (FAC+ or FAC), facultative wetland (FACW) or obligate wetland (OBL). However, during the 2010-2011 surveys along the existing CL&P ROWs, those wetland communities that lacked specific vegetation indicators and did not meet the 1987 USACE Manual criteria were evaluated using criteria from the *Regional Supplement,* Chapter 5 (Difficult Wetland Situations in the Northcentral and Northeast Region).

*Hydrology:* Site hydrology was evaluated during field surveys by initially observing whether the soil at the surface was inundated or saturated. If the ground surface was dry, the depth to freestanding groundwater or saturated soil was measured, and the presence or absence of other indicators of wetland hydrology (e.g. drift lines, water-stained leaves, etc.) was noted. The wetland hydrology criterion was met if one or more primary or two or more secondary field indicators were present (Environmental Laboratory 1987). However, during the 2010-2011 surveys along the existing CL&P ROWs, those wetlands which lacked any hydrology indicators due to temporarily dry conditions, disturbance, or other factors and did not meet the 1987 USACE Manual criteria were evaluated using criteria from the *Regional Supplement*, Chapter 5 (Difficult Wetland Situations in the Northcentral and Northeast Region).

Wetland and watercourse flag positions and data point locations were field located by AECOM personnel using a Trimble global positioning system (GPS) data collection device capable of sub-meter accuracy. The collected GPS data points were then corrected, geo-referenced, and plotted out on aerial photograph imagery.

### 3.3 Wetland and Watercourse Classification

While in the field, AECOM soil and wetland scientists classified the various wetlands and watercourses according to the "Cowardin system", which is a process discussed in "Classification of Wetlands and Deepwater Habitats of the United States" (Cowardin et. al, 1979). Identified wetlands were classified as Palustrine Forested (PFO), Palustrine Scrub-Shrub (PSS), Palustrine Emergent (PEM), Palustrine Open Water (POW), or Palustrine Unconsolidated Bottom (PUB), all of which are further described below. In some cases, a wetland complex contained more than one wetland classification type. In those situations, each wetland type is listed and the first classification type represents the more dominant characteristic. Water quality designations were determined using CTDEEP mapping resources (CTDEEP, 2011a).

**Palustrine Forested Wetlands (PFO)**

Forested wetlands are characterized by woody vegetation that is six meters (approximately 20 feet) tall or taller. These areas normally contain an overstory of trees, an understory of young trees and/or shrubs, and a herbaceous layer. These wetland types are located predominantly in the unmanaged / non-cleared areas of the existing ROWs or in adjacent off-ROW areas.

**Palustrine Scrub-Shrub Wetlands (PSS)**

Scrub-shrub wetlands are typically dominated by woody vegetation less than six meters (approximately 20 feet) tall. Areas classified as scrub-shrub cover types may represent a successional stage that through natural processes would transition to a forested wetland; or may contain trees or shrubs that are small and/or stunted due to environmental conditions.

**Palustrine Emergent Wetlands (PEM)**

Emergent wetlands are characterized by erect, rooted, herbaceous hydrophytes not including mosses and lichens. These wetlands maintain the same appearance year after year and are typically dominated by perennial plants that are present for the majority of the growing season.

**Palustrine Open Water (POW)**

Areas of permanent open water that border on palustrine systems are referred to as POW. Area of open water may exist as man-made or natural waterbodies.

**Palustrine Unconsolidated Bottom (PUB)**

Areas of open water with unconsolidated bottoms that border on palustrine systems are referred to as PUB.

### 3.4 Post-Survey Desktop Analysis

The wetland and watercourse boundaries were plotted on aerial imagery and subsequently reviewed and confirmed by AECOM field personnel. The aerial-based maps in Volumes 9 and 11 show the locations of the delineated resources relative to the proposed limits of the Project. USGS topographical quadrangles, National Wetland Inventory Maps, Natural Resource Conservation Service maps, and CTDEEP wetland maps were also utilized in determining approximate wetland boundaries in inaccessible areas. Because of a combination of factors, including thick canopies, steep topography and/or heavy cloud cover, the GPS unit sometimes experienced poor satellite reception and/or geometry. The boundaries of wetlands in areas of poor satellite reception are based upon field observations and aerial photographic interpretation of mapped resources.

## 4.0 Results

As illustrated in Tables 4-1 through 4-4, a total of 227 wetlands and 104 watercourses were identified along the CL&P ROWs associated with the Proposed Route during the 2008 through

2011 investigations.[3] The tables include a reference to the mapsheet on which the delineated wetlands and/or watercourses are located.

Sixty-two wetlands located along the ROWs that the Proposed Route would follow were determined to contain vernal pools for obligate species and 26 wetlands were determined to contain amphibian breeding habitats (i.e., areas not meeting the specific criteria defined by the State of Connecticut to be considered a vernal pool). Several wetlands contained multiple vernal pool and/or amphibian breeding habitat areas within one wetland system. As a result, 88 vernal pools and 29 amphibian breeding habitats were identified in total. A separate summary report has been prepared for the vernal pools and amphibian breeding habitat encountered along the CL&P ROWs along which the Proposed Route would be located.

During the process of delineating the wetlands within the ROWs, both state and federal methodologies were employed. In Connecticut, state and federal boundaries can differ due to the different delineation methodologies. Frequently, areas of alluvial and floodplain soils that qualify as wetlands in Connecticut may not exhibit a wetland plant community and evidence of wetland hydrology, as required by the USACE (Federal) methodology. As a result, some locations on the Connecticut landscape do require distinct state and federal wetland boundaries. Based on field and desktop investigations, AECOM determined five of the 227 wetland areas to be strictly state jurisdictional. These wetlands are identified in the tables and shown on Project mapsheets.

As described above, wetlands were classified according to the Cowardin system. One hundred and eighty-seven wetlands examined in the Project Study Area are classified either wholly or in-part as PFO. One hundred and sixty-six wetlands examined during this study are classified either wholly, or in-part, as PSS, and another 35 wetlands examined during this study are classified either wholly, or in-part, as PEM. Eighteen wetlands examined during this study were classified either wholly, or in-part, as POW, and another nine wetlands were classified as PUB. Vegetation and soil types encountered within these wetlands are presented below.

[3] These wetlands and watercourses were identified within the width of the existing CL&P ROWs (and within the proposed ROW expansion areas across 1.4 miles of USACE-owned property in Mansfield and Chaplin. However, not all of these water resources would necessarily be affected by the construction of the proposed Project.

### ***Wetland Vegetation***

Common species encountered in the various PFO wetlands included some combination of the following species: red maple (*Acer rubrum*), cinnamon fern (*Osmunda cinnamomea*), sensitive fern (*Onoclea sensibilis*), silky dogwood (*Cornus amomum*), white pine (*Pinus strobus*), yellow birch (*Betula alleghaniensis*), sphagnum moss (*Sphagnum sp.*), highbush blueberry (*Vaccinium corymbosum*), Japanese barberry (*Bereris thunbergii*), sedges (*Carex spp.*), spicebush (*Lindera benzoin*), and skunk cabbage (*Symplocarpus foetidus*), as well as the invasive species multiflora rose (*Rosa multiflora)* and/or common reed (*Phragmites australis*). Common species found within the PSS wetland areas included: red maple, cinnamon fern, sphagnum moss, speckled alder (*Alnus incana*), sensitive fern, sedges, reed canary grass (*Phalaris arundinacea*), silky dogwood, skunk cabbage and multiflora rose. The vegetation species commonly encountered in PEM wetlands included: tussock sedge (*Carex stricta*), cattails (*Typha latifolia*), sensitive fern, sedges and skunk cabbage.

Appendices B and D include additional details and site-specific information for each wetland and watercourse area.

### ***Wetland Soils***

Multiple soil types representing a wide variety of soil series designations were identified during the wetland and watercourse inventory. Soils identified in the various wetlands appear to have formed in parent materials including glacial till, glaciolacustrine sediments, glacial outwash, and organic materials. The soil types within the study area were identified as moderately well drained soils to the very poorly drained hydric soils and included fine sandy loams, gravelly sandy loams, silty loams, sandy loams and muck. Many areas were identified as frequently flooded. Poor drainage was noted in areas with the presence of deep organic soils, sapric material in the surface layers, high organic contents in the topsoil and/or prolonged standing water. Additionally, varying degrees of stoniness and rockiness were observed.

See Appendices B and D for additional details and site specific information for each wetland and watercourse area.

***Watercourses***

The watercourses encountered during this inventory varied greatly in type, size and character. "Rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof" are considered watercourses, according to the Connecticut Inland Wetlands and Watercourses Act. Some of the streams that were inventoried are natural, whereas others were man-made. Silty sediments, sand, rock, gravel, riprap, and/or cobble bottoms dominated the stream beds that were inventoried. The shape, height, susceptibility to erosion and direction of flow of the individual watercourses varied greatly. Man made watercourses that were inventoried included those with culverts and corrugated and smooth drainage pipes, retention ponds, and man-made farm ponds.

See Appendices B and D for additional details and site-specific information for regarding each watercourse area.

| Table 4-1<br>Wetlands Identified Along the Project ROWs,<br>By Municipality | |
|---|---|
| **Parameter** | **Number of Identified Wetlands** |
| **Total Number of Wetlands** | **227** |
| Municipality: **Lebanon*** | 5 |
| Municipality: **Columbia*** | 20 |
| Municipality: **Coventry*** | 8 |
| Municipality: **Mansfield*** | 42 |
| Municipality: **Chaplin*** | 24 |
| Municipality: **Hampton*** | 32 |
| Municipality: **Brooklyn*** | 44 |
| Municipality: **Pomfret*** | 4 |
| Municipality: **Killingly*** | 12 |
| Municipality: **Putnam** | 31 |
| Municipality: **Thompson** | 10 |

*Wetlands W20-5, W20-24, W20-68, W20-92, and W20-120, span the border of two municipalities. These wetlands have been included in the inventory for both respective municipalities but were counted only once in the Total Number of Wetlands.

**Table 4-2**
**Watercourses Identified Along the Project ROWs,**
**By Municipality**

| Parameter | Number of Identified Watercourses |
|---|---|
| **Total Number of Watercourses** | **104** |
| Municipality: **Lebanon*** | 1 |
| Municipality: **Columbia** * | 4 |
| Municipality: **Coventry** * | 3 |
| Municipality: **Mansfield** * | 21 |
| Municipality: **Chaplin** * | 12 |
| Municipality: **Hampton** | 17 |
| Municipality: **Brooklyn*** | 26 |
| Municipality: **Pomfret** | 2 |
| Municipality: **Killingly** * | 6 |
| Municipality: **Putnam*** | 16 |
| Municipality: **Thompson** | 4 |

*Watercourses S20-1, S20-2, S20-4, S20-20, S20-54, S20-55, S20-58, and S20-59 span the border of two municipalities. These watercourse have been included in the inventory for each of the respective municipalities but each crossing was counted only once in the Total Number of Watercourses.

**Table 4-3**
**Wetlands Identified Along the Project ROWs, By Type**

| Parameter | Number of Identified Wetlands |
|---|---|
| **Total Number of Wetlands** | **227** |
| Wetland Classification: **PFO**[1] | 187 |
| Wetland Classification: **PSS**[1] | 166 |
| Wetland Classification: **PEM**[1] | 35 |
| Wetland Classification: **POW**[1] | 18 |
| Wetland Classification: **PUB**[1] | 9 |

1 – Wetlands were classified according to Cowardin et al. PEM = palustrine emergent wetland; PSS = palustrine scrub-shrub wetland; PFO = palustrine forested wetland; POW = palustrine open water; PUB = palustrine unconsolidated bottom. The Wetland areas were classified by AECOM soil and wetland scientists. The Total Number of Wetlands reflects the actual number of wetlands areas identified, but multiple Cowardin classifications may apply to a particular wetland area, resulting in the appearance of a discrepancy with the tabulations.

**Table 4-4**

**Watercourses Identified Along the Project ROWs, By Type and Water Quality Classification**

| Parameter | Number of Identified Watercourses |
|---|---|
| **Total Number of Watercourses** | **104** |
| Water Quality Classification: **AA**[1] | 15 |
| Water Quality Classification: **AA**[1] **/Coldwater** | 9 |
| Water Quality Classification: **AA**[1] **/Warmwater** | 4 |
| Water Quality Classification: **A**[1] | 55 |
| Water Quality Classification: **A**[1] **/ Coldwater** | 8 |
| Water Quality Classification: **A**[1] **/ Warmwater** | 7 |
| Water Quality Classification: **B**[1] **/ Coldwater** | 6 |
| Watercourse Frequency: **I**[2] | 50 |
| Watercourse Frequency: **P**[2] | 54 |

1 – Watercourses were classified using the CT Water Quality Standards classifications revised February 2011: AA = drinking water supply, A = potential drinking water supply, contact recreation, B = recreational use. B/AA = watercourse does not meet Class AA Criteria or designated uses. The water quality goal is achievement of Class AA Criteria and attainment of Class AA designated uses. The Total Number of Watercourses reflects the actual number of watercourses identified along the existing CL&P ROWs. Class AA watercourses crossed by the Project, are those that serve as a drinking water supply upstream of Willimantic Water Works and include the Natchaug, Fenton and Mount Hope Rivers and their tributaries.

2 – Watercourse frequency is designated using the CT Inland Wetland and Watercourses Act: P = Perennial, I = Intermittent.

## 5.0 Discussion

Tables 4-1 and 4-2 show the distribution of wetlands and watercourses along the existing CL&P ROWs, by municipality. Along the ROWs, Brooklyn and Mansfield have the highest number of wetlands (44 and 42 respectively). Brooklyn also has 26 watercourses, and Mansfield has 21. Thirty-two wetlands and 17 watercourses are located along the ROWs in Hampton. Thirty-one wetlands and 16 watercourses are identified in Putnam. Lebanon has five wetlands and one watercourse. Chaplin has 24 wetlands and 12 watercourses identified. Killingly has 12 wetlands and six watercourses identified, while Thompson has 10 wetlands and four watercourses identified along the CL&P ROWs. The municipality with the fewest number of wetlands and watercourses identified is Pomfret with just four wetlands and two watercourses. Tables 4-1 and 4-2 provide additional details regarding the distribution of wetlands and watercourses by municipality.

Tables 4-3 and 4-4 summarize the wetland and watercourse classifications of the water resources identified within the existing CL&P ROWs. Most of the wetlands (79 percent) identified during the investigations are classified either wholly, or in part, as PFO. Approximately 69 percent of the inventoried wetlands are classified either wholly, or in part, as PSS, and approximately 14 percent of the wetlands are classified either wholly, or in part, as PEM. Less than 10 percent of the wetland areas are classified either wholly, or in part, as POW; and less than five percent of the wetland areas are classified either wholly, or in part, as PUB, though watercourses were inventoried separately and are not accounted for in this percentage. Often, multiple Cowardin system classifications are applied to a particular wetland area. In fact, a majority of the wetlands inventoried exhibit a PSS cover type, with a bordering PFO cover type. This is very typical of most routinely managed ROWs.

A total of 104 watercourses were inventoried as part of the investigations along the existing CL&P ROWs. Of these 104 watercourses, 54 are indicated to sustain perennial flow, while the remaining 50 watercourses are classified as intermittent. Along the Proposed Route, one Level A Aquifer[4] and one municipal drinking water supply were encountered during the investigations, and the vast majority (98, or 94 percent) of the watercourses inventoried hold a Water Quality Classification of “A” or better, indicating that those watercourses represent potential drinking

water supply and are suitable for contact recreation. Six of the inventoried watercourses are deemed suitable for recreational use but are not drinking water supplies. Tables 4-3 and 4-4 provide additional details regarding the classifications of wetlands and watercourses inventoried as part of AECOM's field investigations.

## 6.0 References

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# Appendix A

## Connecticut Wetlands and Watercourses

## Identified Along the Interstate Reliability Project

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Lebanon | W20-1 | 01, 02 of 134 | PFO / PSS |
| Lebanon | W20-2 | 01 of 134 | PFO / PSS |
| Lebanon | W20-3 | 01, 02 of 134 | PSS / PFO |
| Lebanon | W20-4 | 02 of 134 | PSS |
| Lebanon / Columbia | W20-5* | 02, 03 of 134 | PSS / PFO |
| Columbia | W20-6 | 03 of 134 | PFO / PSS |
| Columbia | W20-7 | 03 of 134 | PSS / PFO |
| Columbia | W20-8 | 04 of 134 | PSS / PFO |
| Columbia | W20-9** | 04, 05 of 134 | PSS / PFO |
| Columbia | W20-10 | 05 of 134 | PFO / PSS |
| Columbia | W20-11 | 05, 06 of 134 | PSS / PFO |
| Columbia | W20-12 | 05, 06 of 134 | PSS |
| Columbia | W20-13 | 06 of 134 | PSS / PFO |
| Columbia | W20-14 | 07 of 134 | PSS |
| Columbia | W20-15 | 07 of 134 | PSS |
| Columbia | W20-16 | 07 of 134 | PSS |
| Columbia | W20-17 | 07 of 134 | PFO / PEM |
| Columbia | W20-18 | 07, 08 of 134 | PSS |
| Columbia | W20-19 | 07, 08 of 134 | PSS |
| Columbia | W20-20 | 07, 08 of 134 | PSS |
| Columbia | W20-21 | 08 of 134 | PFO / PSS |
| Columbia | W20-22 | 08 of 134 | PSS |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Columbia | W20-23 | 08 of 134 | PSS / PFO |
| Columbia / Coventry | W20-24 | 08, 09 of 134 | PSS / PFO |
| Coventry | W20-25 | 09 of 134 | PFO |
| Coventry | W20-26 | 10 of 134 | PSS / PFO |
| Coventry | W20-27** | 10, 11 of 134 | PEM / PFO |
| Coventry | W20-28 | 11 of 134 | PFO / PSS |
| Coventry | W20-29 | 12 of 134 | PFO |
| Coventry | W20-30*** | 12, 13 of 134 | PEM / PFO |
| Coventry | W20-31*** | 13, 14 of 134 | PEM / PFO |
| Mansfield | W20-32 | 13, 14 of 134 | PEM |
| Mansfield | W20-33 | 15 of 134 | PFO / PSS |
| Mansfield | W20-34 | 15, 16 of 134 | PFO |
| Mansfield | W20-35 | 15, 16 of 134 | PSS / PFO |
| Mansfield | W20-36 | 16 of 134 | PFO |
| Mansfield | W20-37 | 16, 17 of 134 | PFO |
| Mansfield | W20-38 | 16, 17 of 134 | PSS / PFO |
| Mansfield | W20-39 | 16, 17 of 134 | PFO / PSS |
| Mansfield | W20-39A | 17 of 134 | PSS / PFO |
| Mansfield | W20-40 | 17 of 134 | PFO |
| Mansfield | W20-41** | 17, 18 of 134 | PFO / PSS |
| Mansfield | W20-42 | 18 of 134 | PFO / PSS |
| Mansfield | W20-43** | 18, 19 of 134 | PFO / PSS |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Mansfield | W20-44** | 19, 20 of 134 | PFO / PSS |
| Mansfield | W20-45 | 21 of 134 | PFO |
| Mansfield | W20-45A | 21 of 134 | PEM / PFO |
| Mansfield | W20-46 | 21 of 134 | PFO / PSS |
| Mansfield | W20-47 | 22 of 134 | PFO / PSS |
| Mansfield | W20-48 | 22 of 134 | PFO / PSS |
| Mansfield | W20-49 | 22 of 134 | PEM |
| Mansfield | W20-50** | 22 of 134 | PFO / PSS |
| Mansfield | W20-51 | 23 of 134 | PSS |
| Mansfield | W20-52 | 23 of 134 | PFO / PSS |
| Mansfield | W20-53** | 23 of 134 | PFO / PSS |
| Mansfield | W20-54 | 24 of 134 | PSS / PFO |
| Mansfield | W20-55** | 24 of 134 | PFO / PSS |
| Mansfield | W20-56** | 25 of 134 | PFO / PSS |
| Mansfield | W20-57 | 25 of 134 | PFO |
| Mansfield | W20-58 | 25, 26 of 134 | PFO / PSS |
| Mansfield | W20-59 | 26 of 134 | PFO |
| Mansfield W20-60 | | 27of 134 | PSS |
| Mansfield | W20-61 | 27, 28 of 134 | PFO / PSS |
| Mansfield | W20-62 | 28, 29 of 134 | PEM |
| Mansfield | W20-62A | 28 of 134 | POW |
| Mansfield | W20-62B | 28, 29 of 134 | POW |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Mansfield | W20-62C*** | 28, 29 of 134 | POW |
| Mansfield | W20-63** | 31 of 134 | PFO / PSS |
| Mansfield | W20-64** | 31 of 134 | PFO / PSS |
| Mansfield | W20-65 | 33 of 134 | PUB / PFO |
| Mansfield | W20-66 | 34 of 134 | PUB / PFO |
| Mansfield | W20-67 | 36 of 134 | PFO |
| Mansfield / Chaplin | W20-68*** | 36, 37 of 134 | PEM / PFO / PSS |
| Chaplin | W20-69 | 37 of 134 | PFO / PSS |
| Chaplin | W20-70** | 38 of 134 | PFO / PSS |
| Chaplin | W20-71 | 38 of 134 | PSS |
| Chaplin | W20-72/73** | 38, 39 of 134 | PSS / PFO |
| Chaplin | W20-74 | 39 of 134 | PFO |
| Chaplin | W20-75 | 39 of 134 | PSS / PFO |
| Chaplin | W20-76 | 39, 40 of 134 | PFO / PSS |
| Chaplin | W20-77*** | 40 of 134 | POW / PSS / PFO |
| Chaplin | W20-78** | 40 of 134 | PFO |
| Chaplin | W20-79**/*** | 40 of 134 | PFO |
| Chaplin | W20-80 | 40 of 134 | PFO / PSS |
| Chaplin | W20-81** | 41 of 134 | PFO / PSS |
| Chaplin | W20-82 | 41 of 134 | PSS |
| Chaplin | W20-83** | 41, 42 of 134 | PSS / PFO |
| Chaplin | W20-84** | 42 of 134 | PSS / PFO |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Chaplin | W20-85 | 43 of 134 | POW / PFO / PSS |
| Chaplin | W20-86*** | 44 of 134 | PUB / PEM / PFO |
| Chaplin | W20-87** | 44, 45 of 134 | PFO / PSS |
| Chaplin | W20-88*** | 46 of 134 | PFO / PSS |
| Chaplin | W20-89**/*** | 46, 47 of 134 | PFO / PSS / POW |
| Chaplin | W20-90 | 48 of 134 | PFO |
| Chaplin | W20-91*** | 47, 48 of 134 | POW / PSS |
| Chaplin / Hampton | W20-92 | 48, 49 of 134 | PFO / PSS |
| Hampton | W20-93 | 49 of 134 | PSS |
| Hampton | W20-94** | 50 of 134 | PFO / PSS |
| Hampton | W20-95 | 50, 51 of 134 | PFO / PSS |
| Hampton | W20-95A | 50 of 134 | PFO |
| Hampton | W20-96 | 51 of 134 | PSS |
| Hampton | W20-97 | 51 of 134 | PFO / PSS |
| Hampton | W20-98** | 52, 53 of 134 | PFO / PSS |
| Hampton | W20-99 | 53 of 134 | PFO / PEM |
| Hampton | W20-100**/*** | 53, 54 of 134 | PFO / PSS |
| Hampton | W20-101** | 54 of 134 | PFO |
| Hampton | W20-102 | 54, 55 of 134 | PFO / PSS |
| Hampton | W20-103 | 55, 56 of 134 | PFO / PSS |
| Hampton | W20-104 | 55, 56 of 134 | PFO / PSS |
| Hampton | W20-105 | 56 of 134 | PEM |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Hampton | W20-106 | 56 of 134 | PFO |
| Hampton | W20-107 | 56, 57 of 134 | PEM / PFO |
| Hampton | W20-108 | 56, 57 of 134 | PSS / PFO |
| Hampton | W20-109 | 57 of 134 | PSS / PFO |
| Hampton | W20-110 | 58 of 134 | PSS / PFO |
| Hampton | W20-111** | 58 of 134 | PSS |
| Hampton | W20-112*** | 58, 59 of 134 | PSS |
| Hampton | W20-112A** | 59 of 134 | PFO |
| Hampton | W20-113** | 58, 59 of 134 | PFO |
| Hampton | W20-114** | 59 of 134 | PFO |
| Hampton | W20-115 | 59 of 134 | PFO / PSS |
| Hampton | W20-116*** | 59, 60 of 134 | PFO / PSS |
| Hampton | W20-117*** | 60, 61 of 134 | PSS / PFO / PEM |
| Hampton | W20-118** | 60, 61 of 134 | PFO / PSS |
| Hampton | W20-119 | 62 of 134 | PSS |
| Hampton / Brooklyn | W20-120*** | 63, 64 of 134 | PFO / PSS |
| Hampton | W20-121** | 63 of 134 | PSS |
| Brooklyn | W20-122*** | 64, 65, 66 of 134 | PFO / PSS / PEM |
| Brooklyn | W20-123** | 65, 66 of 134 | PFO / PSS |
| Brooklyn | W20-124 | 66 of 134 | PFO / PSS |
| Brooklyn | W20-125** | 66 of 134 | PSS / PFO |
| Brooklyn | W20-126 | 68 of 134 | PFO |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Brooklyn | W20-127** | 68 of 134 | PSS / PFO |
| Brooklyn | W20-128 | 68 of 134 | PFO |
| Brooklyn | W20-129** | 69 of 134 | PSS / PFO |
| Brooklyn | W20-130** | 70 of 134 | PFO / PSS |
| Brooklyn | W20-131 | 71 of 134 | PFO |
| Brooklyn | W20-132 | 71 of 134 | PFO |
| Brooklyn | W20-133 | 71 of 134 | PEM / PFO |
| Brooklyn | W20-134 | 71 of 134 | PSS |
| Brooklyn | W20-135 | 71 of 134 | PFO |
| Brooklyn | W20-136 | 72 of 134 | PFO |
| Brooklyn | W20-137** | 72, 73 of 134 | PFO / PSS |
| Brooklyn | W20-138** | 72, 73 of 134 | PFO / PSS |
| Brooklyn | W20-139**/*** | 73, 74 of 134 | PFO / PSS |
| Brooklyn | W20-140** | 74 of 134 | PFO / PSS |
| Brooklyn | W20-141 | 74 of 134 | PFO |
| Brooklyn | W20-142 | 74 of 134 | PFO |
| Brooklyn | W20-143** | 74 of 134 | PSS / PFO |
| Brooklyn | W20-144 | 74 of 134 | PFO / POW |
| Brooklyn | W20-145 | 75 of 134 | PFO |
| Brooklyn | W20-146 | 75 of 134 | PFO |
| Brooklyn | W20-147 | 75 of 134 | PFO / POW |
| Brooklyn | W20-148 | 75, 76 of 134 | PUB / PEM / PFO / PSS |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Brooklyn | W20-149** | 76 of 134 | PFO / PSS |
| Brooklyn | W20-150 | 77 of 134 | PFO / PSS |
| Brooklyn | W20-151 | 79, 80 of 134 | PEM / PUB / PFO |
| Brooklyn | W20-152 | 80 of 134 | PSS |
| Brooklyn | W20-153*** | 80, 81, 82 of 134 | PEM / PUB / PSS / PFO |
| Brooklyn | W20-154** | 82, 83, 84 of 134 | PFO / PSS |
| Brooklyn | W20-154A | 83 and 84 of 134 | PSS / PFO |
| Brooklyn | W20-155 | 84 of 134 | PEM |
| Brooklyn | W20-156 | 84 of 134 | PSS |
| Brooklyn | W20-157** | 84, 85, 86 of 134 | PEM / PSS / PFO |
| Brooklyn | W20-158** | 86 of 134 | PSS / PUB / PFO |
| Brooklyn | W20-159 | 86, 87 of 134 | PSS / PFO / POW |
| Brooklyn | W20-159A | 88 of 134 | PEM / PFO |
| Brooklyn | W20-160*** / W20-160A | 89, 89A of 134 | PSS / PFO |
| Brooklyn | W20-160B | 88A of 134 | PFO |
| Pomfret | W20-161** | 94 of 134 | PFO |
| Pomfret | W20-161A | 93 of 134 | PFO |
| Pomfret | W20-162*, *** | 95, 96 of 134 | PSS / PFO / POW |
| Pomfret | W20-163 | 96 of 134 | PSS / PEM / PFO / POW |
| Killingly | W20-164* | 96, 97 of 134 | PSS / PEM / PFO / POW |
| Killingly | W20-165 | 97of 134 | PSS / PFO |
| Killingly | W20-166 | 97 of 134 | PSS |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Killingly | W20-167 | 98 of 134 | PFO |
| Killingly | W20-168** | 99 of 134 | PSS / PFO |
| Killingly | W20-169*** | 99, 100 of 134 | PSS / PFO |
| Killingly | W20-170 | 100, 101 of 134 | PFO / PEM |
| Killingly | W20-170A | 100 of 134 | PSS / PFO |
| Killingly | W20-171 | 101, 102 of 134 | PSS / PFO |
| Killingly | W20-171A | 101, 102 of 134 | PSS |
| Putnam | W20-172*, ** | 102, 103 of 134 | PSS / PFO |
| Putnam | W20-173 | 103 of 134 | PSS |
| Putnam | W20-174** | 103 of 134 | PSS / PFO |
| Putnam | W20-175** | 103, 104 of 134 | PSS / POW |
| Putnam | W20-176** | 104 of 134 | PSS / POW |
| Killingly | W20-177** | 105 of 134 | PSS / PFO |
| Killingly | W20-178*, ** | 106 of 134 | PSS / PFO |
| Putnam | W20-179 | 110 of 134 | PSS |
| Putnam | W20-180 | 110 of 134 | PFO / PSS |
| Putnam | W20-181 | 110 of 134 | PSS |
| Putnam | W20-181A | 111 of 134 | PSS / PEM |
| Putnam | W20-181B | 110 of 134 | PFO |
| Putnam | W20-182 | 112 of 134 | PSS / PFO |
| Putnam | W20-182A | 112 of 134 | PSS / PEM |
| Putnam | W20-183 | 112 of 134 | PFO / PSS |

| Table A-1<br>Wetlands Identified Along the Project ROWs | | | |
|---|---|---|---|
| **Municipality** | **Wetland Number** | **Volume 11[1] Mapsheet** | **Wetland Class[2]** |
| Putnam | W20-184 | 113 of 134 | PSS / PEM / PFO |
| Putnam | W20-185 | 115 of 134 | PSS |
| Putnam | W20-186 | 116 of 134 | PFO / PSS |
| Putnam | W20-187** | 116, 117 of 134 | PFO / PSS / PUB |
| Putnam | W20-188**/*** | 117, 118 of 134 | PFO / PSS |
| Putnam | W20-189 | 118 of 134 | PFO / PEM |
| Putnam | W20-190*** | 119 of 134 | PSS / PFO |
| Putnam | W20-191**/*** | 119, 120 of 134 | PFO / PSS / PEM |
| Putnam | W20-192** | 120 of 134 | PFO / POW |
| Putnam | W20-193 | 121 of 134 | PFO / PSS |
| Putnam | W20-194** | 121, 122 of 134 | PSS / PFO |
| Putnam | W20-195** | 122, 123 of 134 | PFO / PSS |
| Putnam | W20-196** | 123, 124 of 134 | PSS |
| Putnam | W20-197** | 124, 125 of 134 | PFO / PSS / PEM |
| Putnam | W20-198*** | 126 of 134 | PUB / PEM / PFO / PSS |
| Putnam | W20-199** | 126 of 134 | PFO / PSS |
| Putnam | W20-200 / W20-201 | 126, 127 of 134 | PFO / PSS / POW |
| Thompson | W20-202 | 127 of 134 | PSS |
| Thompson | W20-203*** | 127, 128, 129 of 134 | PEM |
| Thompson | W20-204 | 129, 130 of 134 | PSS / PFO |
| Thompson | W20-205 | 129, 130 of 134 | PFO |
| Thompson | W20-206 | 130 of 134 | PSS / PFO |

**Table A-1**
**Wetlands Identified Along the Project ROWs**

| Municipality | Wetland Number | Volume 11[1] Mapsheet | Wetland Class[2] |
|---|---|---|---|
| Thompson | W20-207** | 130, 131 of 134 | PFO / PSS |
| Thompson | W20-208 | 132 of 134 | PFO |
| Thompson | W20-209 | 132 of 134 | PEM |
| Thompson | W20-210 | 132 of 134 | PFO |
| Thompson | W20-211 | 134 of 134 | PFO / PSS |

1 – The Volume 11 (1 inch = 100 feet scale) map sheets are used as a reference for this table as the mapping at this scale provides a more detailed view of the wetland boundaries. However, wetlands also are depicted on the Volume 9 (1" = 400') maps.

2 – Wetlands were classified according to Cowardin et al. PEM = palustrine emergent wetland; PSS = palustrine scrub-shrub wetland; PFO = palustrine forested wetland; POW = palustrine open water; PUB = palustrine unconsolidated bottom

* A portion of these wetlands do not meet the three-parameter criteria for a federal jurisdictional wetland, but do meet the criteria of a state of Connecticut wetland.

** A portion of these wetlands meet the criteria for classification as a Connecticut vernal pool.

*** A portion of these wetlands function as amphibian breeding habitat, but do not meet the criteria for classification as a Connecticut vernal pool.

| Table A-2<br>Watercourses Identified Along the Project ROWs | | | | |
|---|---|---|---|---|
| **Municipality** | **Watercourse Series Number and Name (Where Applicable)** | **Volume 11 Mapsheet[1]** | **Water Quality[2] / Fisheries Classification[3] (Where applicable)** | **Watercourse Frequency Type (P or I)[4]** |
| Lebanon / Columbia | S20-1 / Tenmile River | 03 of 134 | B / Coldwater | P |
| Columbia | S20-1A | 05, 06 of 134 | A | P |
| Columbia | S20-1B | 06 of 134 | A | P |
| Coventry / Columbia | S20-2 / Hop River | 08, 09 of 134 | B / Coldwater | P |
| Coventry | S20-3 | 07 of 134 | A | P |
| Coventry / Mansfield | S20-4 / Willimantic River | 13, 14 of 134 | B / Coldwater | P |
| Mansfield S20-5 | | 15 of 134 | A | I |
| Mansfield | S20-6 | 15, 16 of 134 | A | P |
| Mansfield | S20-7 | 16, 17 of 134 | A / Warmwater | P |
| Mansfield | S20-8 | 19 of 134 | AA / Warmwater | P |
| Mansfield | S20-9 / Conantville Brook | 19, 20 of 134 | AA / Warmwater | P |
| Mansfield | S20-10 | 21 of 134 | AA / Warmwater | I |
| Mansfield | S20-11 | 21 of 134 | AA | I |
| Mansfield | S20-12 | 21 of 134 | AA | P |
| Mansfield | S20-12A | 21 of 134 | AA | I |
| Mansfield | S20-13 | 22 of 134 | AA | P |
| Mansfield | S20-14 | 22 of 134 | AA | P |
| Mansfield | S20-15 | 22 of 134 | AA | I |

| Table A-2<br>Watercourses Identified Along the Project ROWs | | | | |
|---|---|---|---|---|
| **Municipality** | **Watercourse Series Number and Name (Where Applicable)** | **Volume 11 Mapsheet[1]** | **Water Quality[2] / Fisheries Classification[3] (Where applicable)** | **Watercourse Frequency Type (P or I)[4]** |
| Mansfield | S20-16 | 24 of 134 | AA / Coldwater | I |
| Mansfield | S20-17 / Sawmill Brook | 25 of 134 | AA / Coldwater | P |
| Mansfield | S20-17B | 25 of 134 | AA | P |
| Mansfield | S20-18 | 27, 28 of 134 | AA / coldwater | I |
| Mansfield | S20-19A | 28, 29 of 134 | AA | I |
| Mansfield | S20-19 | 31 of 134 | AA | I |
| Mansfield Mansfield | Hollow Lake | 33, 34, 35 of 134 | AA / Warmwater | P |
| Mansfield / Chaplin | S20-20 | 36 of 134 | AA / Coldwater | P |
| Chaplin | S20-21 | 37 of 134 | AA / Coldwater | I |
| Chaplin | S20-21A | 38 of 134 | AA | I |
| Chaplin | S20-22 / Natchaug River | 38, 39 of 134 | AA / Coldwater | P |
| Chaplin | S20-23 | 39 of 134 | AA / Coldwater | P |
| Chaplin | S20-24 | 39, 40 of 134 | AA / Coldwater | P |
| Chaplin | S20-25 | 40 of 134 | AA | P |
| Chaplin | S20-26 | 41 of 134 | AA | P |
| Chaplin | S20-27 | 41 of 134 | AA | I |
| Chaplin | S20-28 | 46 of 134 | AA | I |
| Chaplin | S20-29 / Buttonball Brook | 47 of 134 | AA / Coldwater | P |
| Chaplin | S20-30 | 48 of 134 | AA | P |

| Table A-2<br>Watercourses Identified Along the Project ROWs | | | | |
|---|---|---|---|---|
| **Municipality** | **Watercourse Series Number and Name (Where Applicable)** | **Volume 11 Mapsheet[1]** | **Water Quality[2] / Fisheries Classification[3] (Where applicable)** | **Watercourse Frequency Type (P or I)[4]** |
| Hampton | S20-31 | 49 of 134 | A | I |
| Hampton | S20-32 / Merrick Brook | 50 of 134 | A / Coldwater | P |
| Hampton | S20-33 | 51 of 134 | A | I |
| Hampton | S20-34 | 53, 54 of 134 | A | I |
| Hampton | S20-35 | 54 of 134 | A | I |
| Hampton | S20-36 | 55 of 134 | A | I |
| Hampton | S20-37 | 55, 56 of 134 | A | I |
| Hampton | S20-38 | 56 of 134 | A | I |
| Hampton | S20-38A | 56 of 134 | A | I |
| Hampton | S20-39A / Cedar Swamp Brook | 56 of 134 | A / Coldwater | P |
| Hampton | S20-39 / Cedar Swamp Brook | 56, 57 of 134 | A / Coldwater | P |
| Hampton | S20-40 / Little River | 58 of 134 | A / Coldwater | P |
| Hampton | S20-40A | 59 of 134 | A | I |
| Hampton | S20-41 | 59 of 134 | A / Coldwater | P |
| Hampton | S20-41A Humes Brook | 61 of 134 | A | I |
| Hampton | S20-41B | 60 of 134 | A | I |
| Hampton | S20-41C | 63 of 134 | A | I |
| Brooklyn | S20-41D | 65 of 134 | A | I |
| Brooklyn | S20-41E | 65 of 134 | A | I |

| Table A-2<br>Watercourses Identified Along the Project ROWs | | | | |
|---|---|---|---|---|
| **Municipality** | **Watercourse Series Number and Name (Where Applicable)** | **Volume 11 Mapsheet[1]** | **Water Quality[2] / Fisheries Classification[3] (Where applicable)** | **Watercourse Frequency Type (P or I)[4]** |
| Brooklyn | S20-41F | 71 of 134 | A | I |
| Brooklyn | S20-41G | 71 of 134 | A | I |
| Brooklyn | S20-42 / Stony Brook | 72 of 134 | A / Coldwater | P |
| Brooklyn | S20-42A | 72, 73 of 134 | A | P |
| Brooklyn | S20-42B | 74 of 134 | A | I |
| Brooklyn | S20-43 | 75 of 134 | A | I |
| Brooklyn | S20-44 / Blackwell Brook | 75 of 134 | A | P |
| Brooklyn | S20-45 Tanner Brook | 77 of 134 | A | P |
| Brooklyn | S20-46 | 79, 80 of 134 | A | I |
| Brooklyn | S20-47 | 80 of 134 | A | I |
| Brooklyn | S20-47A | 80 of 134 | A | I |
| Brooklyn | S20-48 | 80 of 134 | A | I |
| Brooklyn | S20-49 / White Brook | 81, 82 of 134 | A / Warmwater | P |
| Brooklyn | S20-153 | 81 of 134 | A | I |
| Brooklyn | S20-49A | 83 of 134 | A | I |
| Brooklyn | S20-49B | 83 of 134 | A | I |
| Brooklyn | S20-50 | 84 of 134 | A | P |
| Brooklyn | S20-51 / White Brook | 84, 85 of 134 | A / Warmwater | P |
| Brooklyn | S20-52 / Creamery Brook | 85 of 134 | A / Warmwater | P |
| Brooklyn | S20-52A | 88A of 134 | A | I |

| Table A-2<br>Watercourses Identified Along the Project ROWs | | | | |
|---|---|---|---|---|
| **Municipality** | **Watercourse Series Number and Name (Where Applicable)** | **Volume 11 Mapsheet[1]** | **Water Quality[2] / Fisheries Classification[3] (Where applicable)** | **Watercourse Frequency Type (P or I)[4]** |
| Brooklyn | S20-52B | 88A of 134 | A | I |
| Brooklyn | S20-53 | 89 of 134 | A | P |
| Brooklyn / Pomfret | S20-54 | 90, 91 of 134 | A | I |
| Brooklyn | S20-54A | 89, 90 of 134 | A | I |
| Killingly / Pomfret | S20-55 / Quinebaug River | 95, 96 of 134 | B/ Coldwater | P |
| Killingly | S20-56 | 97 of 134 | A | I |
| Killingly | S20-57 | 99, 100 of 134 | A | I |
| Killingly | S20-57A | 101, 102 of 134 | A | P |
| Putnam / Killingly | S20-58 / Quinebaug River | 102, 103 of 134 | B/ Coldwater | P |
| Putnam / Killingly | S20-59 / Quinebaug River | 105 of 134 | B/ Coldwater | P |
| Putnam | S20-59A | 110 of 134 | A | I |
| Putnam | S20-59B | 112 of 134 | A | I |
| Putnam | S20-59C | 112 of 134 | A | I |
| Putnam | S20-60 / Culver Brook | 113 of 134 | A / Warmwater | P |
| Putnam | S20-60A | 113 of 134 | A | P |
| Putnam | S20-60B | 113 of 134 | A | P |
| Putnam | S20-60C | 113 of 134 | A | P |
| Putnam | S20-60D | 116, 117 of 134 | A | I |

| Table A-2<br>Watercourses Identified Along the Project ROWs | | | | |
|---|---|---|---|---|
| **Municipality** | **Watercourse Series Number and Name (Where Applicable)** | **Volume 11 Mapsheet[1]** | **Water Quality[2] / Fisheries Classification[3] (Where applicable)** | **Watercourse Frequency Type (P or I)[4]** |
| Putnam | S20-60E / Culver Brook | 118 of 134 | A / Coldwater / Wild Brook Trout | P |
| Putnam | S20-61 | 119 of 134 | A | P |
| Putnam | S20-61A / Lippits Brook | 121 of 134 | A / Warmwater | P |
| Putnam | S20-62 | 124, 125 of 134 | A | P |
| Putnam | S20-63 / Munson Brook | 126 of 134 | A / Warmwater | P |
| Putnam | S20-64 / Fivemile River | 127 of 134 | A / Coldwater | P |
| Thompson | S20-65 | 129, 130 of 134 | A | P |
| Thompson | S20-66 / Teft Brook | 130, 131 of 134 | A | P |
| Thompson | S20-67 | 132 of 134 | A | I |
| Thompson | S20-68 | 134 of 134 | A | I |

1 - The Volume 11 (1 inch = 100 feet scale) mapsheets are used as a reference for this table as the mapping at this scale provides a more detailed view of the watercourse boundaries. However, the watercourses also are depicted on the Volume 9 (1" = 400') maps.

2 – Water classifications as defined by the Connecticut Water Quality Standards are goals that have been set forth by the CT DEEP. Information regarding the changes in 2010 and the establishment of these classifications as goals was obtained through communications with Susan Peterson of the CT DEEP on December 7, 2011. These Classifications are:

AA: designated for: existing or proposed drinking water supplies; habitat for fish and other aquatic life and wildlife; recreation; water supply for industry and agriculture

A: habitat for fish and other aquatic life and wildlife; potential drinking water supplies; recreation; navigation; and water supply for industry and agriculture

B: habitat for fish and other aquatic life and wildlife; recreation; navigation; and industrial and agricultural water supply

3 – Fishery Classification (where applicable) was obtained by personal communication with Neal Hagstrom, Senior Fisheries Biologist at CTDEEP. December 10, 2010 and June 17, 2011. Additional

communication with Neal Hagstrom occurred on December 5, 2011 regarding fishery and water quality classifications.

4 – P = Perennial; I = Intermittent

# Appendix B

## 2008 Wetlands and Watercourses Field Data Forms

**Town of Lebanon, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 312 _____
Observers: T. Ramborger/R. Lloyd/J. Berg_____
Date: 02/08/08 _____

Wetland ID: ENSR# W-03-NL-008/NU# W20-2
Town: Lebanon, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - A
Silky dogwood (Cornus amomum) - C
Multiflora rose (Rosa multiflora) - C
Maleberry (Lyonia ligustrina) - C

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) - A
Cinnamon fern (Osmunda cinnamomea) - C
Sedges (Carex spp.) - C
Skunk cabbage (Symplocarpus foetidus) - C
Soft rush (Juncus effuses) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 325 /300-316 _____
Observers: T. Ramborger/R. Lloyd/J. Berg_____
Date: 02/07/08 _____

Wetland ID: ENSR# W-03-NL-007/NU# W20-1
Town: Lebanon, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) – A
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - A
Multiflora rose (Rosa multiflora) - C
Silky dogwood (Cornus amomum) - C
Japanese barberry (Berberis thungerbii) - C

Saplings/Lianas:
Gray birch (Betula populifolia) - C
_____
_____
_____
_____

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) - C
Cattails (Typha latifolia) - C
Cinnamon fern (Osmunda cinnamomea) - C
Phragmites (Phragmites australis) - C
Skunk cabbage (Symplocarpus foetidus) – C
Royal fern (Osmunda regalis) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 650 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 321 _____
Observers: T. Ramborger/R. Lloyd/J.Berg __
Date: 02/06/08 _____

Wetland ID: ENSR# W-03-NL-005/ NU# w20-3
Town: Lebanon, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: none_____
_____
_____
_____
_____

Shrubs: Silky dogwood (Cornus amomum) C [FACW]
Multiflora rose (Rosa multiflora) C [FACU]
_____
_____
_____

Saplings/Lianas:
Red maple (Acer rubrum) C [FAC]
_____
_____
_____
_____

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) A [OBL]
Sphagnum moss (Sphagnum sp.) C [OBL]
Sensitive fern (Onoclea sensibilis) C [FACW]
Cinnamon fern (Osmunda cinnamomea) C [FACW]
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,600 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 357_____
Observers: T. Ramborger/Ryan Lloyd/J. Berg
Date: 02/06/08_____

Wetland ID: ENSR# W-03-NL-006/NU# W20-4
Town: Lebanon, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Speckled alder (Alnus rugosa) - A
Silky dogwood (Cornus amomum) - C
Honeysuckle (Lonicera sp.) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Cattails (Typha latifolia) - A
Sensitive fern (Onoclea sensibilis) - A
Skunk cabbage (Symplocarpus foetidus) - C
Cinnamon fern (Osmunda cinnamomea) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also -- | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,600 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 110 & 200 – 214 _____
Observers: T. Ramborger/R. Lloyd/J. Berg _____
Date: 02/05/08 _____

Wetland ID: ENSR# W-03-NL-004/ NU# w20-5
Town: Lebanon, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Speckled alder (Alnus rugosa) - A
Silky dogwood (Cornus amomum) - C
Maleberry (Lyonia ligustrina) - C
Japanese barberry (Berberis thunbergii) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) - A
Reed canary grass (Phalaris arundinacea) - C
Cinnamon fern (Osmunda cinnamomea) - C
Sedges (Carex spp.) - C
Sphagnum moss (Sphagnum sp.) – C
Skunk cabbage (Symplocarpus foetidus) – C
Soft rush (Juncus effuses) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks -- **X** |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 51B - Sutton fsl, 2-8% slopes; 60B-Canton & Charlton soils, 3-8% slopes; & 102-Pootatuck fsl

River/Stream Data: Tenmile River (S-03-NL-001) ___**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: > 5' | | Bank Height: >3-5' | | | Channel Width >25-30' | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel -- **X** | Cobbles -- **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,600 feet west | Y | N | Y | N | Y | N | |

**Town of Columbia, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 305 _____
Observers: T. Ramborger/R. Lloyd/ J. Kennedy _
Date: 02/05/08 _____

Wetland ID: ENSR# W-03-NL-003/ NU# W20-6
Town: Columbia, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Multiflora rose (Rosa multiflora) - C

Saplings/Lianas:
Gray birch (Betula populifolia) - C

Herbs/Forbes:
Sedges (Carex spp.) - C
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 29B - Agawam fsl, 3-8% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~1,600 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 312_____
Observers: T. Ramborger/R. Lloyd/ J. Kennedy
Date: 02/05/08 _____

Wetland ID: ENSR# W-03-NL-002/ NU# W20-7
Town: Columbia, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - A
Silky dogwood (Cornus amomum) - C
Witch-hazel (Hamamelis virginiana) - C
Maleberry (Lyonia ligustrina) - C

Herbs/Forbes:

Sedges (Carex spp.) - C
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C
Skunk cabbage (Symplocarpus foetidus) - C
Reed canary grass (Phalaris arundinacea) – C
Woolgrass (Scirpus cyperinus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 29B - Agawam fsl, 3-8% slopes & 61C – Canton & Charlton soils, 8-15% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,300 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 331 _____
Observers: T. Ramborger/R. Lloyd/J. Kennedy ___
Date: 02/05/08 _____

Wetland ID: ENSR# W-03-NL-001/ NU# W20-8
Town: Columbia, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red Maple (Acer rubrum) - C
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - C
Silky dogwood (Cornus amomum) - C
Honeysuckle (Lonicera sp.) - C
Multiflora rose (Rosa multiflora) - C

Herbs/Forbes:

Sedges (Carex spp.) - A
Cinnamon fern (Osmunda cinnamomea) - A
Sensitive fern (Onoclea sensibilis) - A
Soft rush (Juncus effuses) - C
Cattails (Typha latifolia) – C
Skunk cabbage (Symplocarpus foetidus) – C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Baker Hill Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 360_____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/08/08_____

Wetland ID: ENSR# W-03-TO-009/NU# W20-9
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Speckled alder (Alnus rugosa) - A
Silky dogwood (Cornus amomum) - C
Honeysuckle (Lonicera sp.) - C
Multiflora rose (Rosa multiflora) - C
Maleberry (Lyonia ligustrina) – C
Highbush blueberry (Vaccinium corymbosum) - C

Saplings/Lianas:

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) - A
Cinnamon fern (Osmunda cinnamomea) - C
Sedges (Carex spp.) - C
Phragmites (Phragmites australis) - C
Reed canary grass (Phalaris arundinacea) – C
Cattails (Typha latifolia) – C
Skunk cabbage (Symplocarpus foetidus) – C
Tearthumb (Polygonum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area contains a Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Cards Mill Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 300 - 309_____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/12/08_____

Wetland ID: ENSR# W-03-TO-010/NU# W20-10
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
Yellow birch (Betula alleghaniensis) - C

Shrubs: Ironwood (Carpinus caroliniana) - C

Saplings/Lianas:
N/A

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) - C
Reed canary grass (Phalaris arundinacea) - C
Phragmites (Phragmites australis) - C
Steeplebush (Spiraea tomentosa) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____X____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 85B - Paxton & Montauk fsl, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,400 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 403 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/12/08_____

Wetland ID: ENSR# W-03-TO-011/NU# w20-12
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Meadowsweet (Spiraea latifolia) - C
_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) -C
Goldenrod (Solidago sp.) - C
Steeplebush (Spiraea tomentosa) - C
Sensitive fern (Onoclea sensibilis) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,000 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 341_____
Observers: T. Ramborger/ J. Kennedy _____
Date: 02/12/08 _____

Wetland ID: ENSR# W-03-TO-012/NU# w20-11
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - A
Silky dogwood (Cornus amomum) - C
Meadowsweet (Spiraea latifolia) - C
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) - A
Steeplebush (Spiraea tomentosa) - C
Reed canary grass (Phalaris arundinacea) - C
Sphagnum moss (Sphagnum sp.) - C
Woolgrass (Scirpus cyperinus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Also –<br>Inundated soils | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,000 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 341 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/12/08_____

Wetland ID: ENSR# W-03-TO-013/NU# W20-13
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C

Shrubs: Speckled alder (Alnus rugosa) - C
Silky dogwood (Cornus amomum) -C
Highbush blueberry (Vaccinium corymbosum) -C
Maleberry (Lyonia ligustrina) - C
Willow (Salix sp.) - C

Saplings/Lianas:

Herbs/Forbes:
Phragmites (Phragmites australis) - C
Cattails (Typha latifolia) - C
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C
Sphagnum moss (Sphagnum sp.) –C
Tussock sedge (Carex stricta) – C
Sedges (Carex spp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also-- | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Elevated root systems | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 300 – 317 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/12/08_____

Wetland ID: ENSR# W-03-TO-014/NU# w20-14
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Speckled alder (Alnus rugosa) - C
Highbush blueberry (Vaccinium corymbosum) - C
Maleberry (Lyonia ligustrina) - C
Multiflora rose (Rosa multiflora) - C
Arrowwood (Viburnum sp.) - C

Saplings/Lianas: _____N/A_____

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) - C
Cinnamon fern (Osmunda cinnamomea) - C
Steeplebush (Spiraea tomentosa) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 52C - Sutton fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 400 feet northwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 300 - 311_____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/12/08 _____

Wetland ID: ENSR# W-03-TO-015/NU# w20-15
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - A
Multiflora rose (Rosa multiflora) - C
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C
Skunk cabbage (Symplocarpus foetidus) - C
Elderberry (Sambucus sp.) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Old Willimantic Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project __
Flag Series: 300 - 316_____
Observers: T. Ramborger/R. Lloyd _____
Date: 02/14/08_____

Wetland ID: ENSR# W-03-TO-016/NU# w20-16
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - A
Spicebush (Lindera benzoin) - C
Silky dogwood (Cornus amomum) - C
_____
_____

Saplings/Lianas:

_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) - A
Cattails (Typha latifolia) - C
Tussock sedge (Carex stricta) - C
Cinnamon fern (Osmunda cinnamomea) - C
Skunk cabbage (Symplocarpus foetidus) – C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Also –<br>Inundated soils | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| O - 20 | Oa | Muck | N 2.5/0 | -- |
| 20+ | C | Sandy loam | 10 YR 4/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: S-01-TO-001 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 3" | | Bank Height: 1-2' | | | Channel Width 5-6' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow **X** | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual - **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand - **X** | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Old Willimantic Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 317 _____
Observers: T. Ramborger/R. Lloyd_____
Date: 02/14/08_____

Wetland ID: ENSR# W-03TO-017/NU# W20-17
Town: Columbia, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C

Shrubs: Spicebush (Lindera benzoin) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Cattails (Typha latifolia) - A
Sensitive fern (Onoclea sensibilis) - C
Cinnamon fern (Osmunda cinnamomea) - C
Tussock sedge (Carex stricta) - C
Skunk cabbage (Symplocarpus foetidus) –C
Reed canary grass (Phalaris arundinacea) –C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also— | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | Oa | Muck | N 2.5/0 | -- |
| 8 – 20+ | C | Sandy loam | 5 G 5/0 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 150 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 413 _____
Observers: T. Ramborger/R. Lloyd_____
Date: 02/14/08_____

Wetland ID: ENSR# W-03-TO-020/NU# w20-18
Town: Columbia, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Silky dogwood (Cornus amomum) - C
Maleberry (Lyonia ligustrina) - C
Multiflora rose (Rosa multiflora) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Reed canary grass (Phalaris arundinacea) – C
Sedges (Carex spp.) - C
Sensitive fern (Onoclea sensibilis) - C
Steeplebush (Spiraea tomentosa) - C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Fine sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Very fine sandy loam/silty clay loam | 10 YR 5/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 700 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 400 – 405 _____
Observers: T. Ramborger/R. Lloyd_____
Date: 02/14/08_____

Wetland ID: ENSR# W-03-TO-019/NU# w20-19
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Silky dogwood (Cornus amomum) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) - C
Cinnamon fern (Osmunda cinnamomea) - C
Steeplebush (Spiraea tomentosa) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded -- **X** | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area ponded, controlled by an inlet & outlet culvert ( i.e. two culverts) | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 61B – Canton & Charlton soils, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 700 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 305_____
Observers: T. Ramborger/R. Lloyd _____
Date: 02/14/08 _____

Wetland ID: ENSR# W-03-TO-018/NU# w20-20
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Silky dogwood (Cornus amomum) - C
Speckled alder (Alnus rugosa) - C
Multiflora rose (Rosa multiflora) - C

Saplings/Lianas: Elm (Ulmus sp.) – C _____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) - C
Cinnamon fern (Osmunda cinnamomea) - C
Steeplebush (Spiraea tomentosa) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 61B - Canton & Charlton soils, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 700 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 309 _____
Observers: T. Ramborger/R. Lloyd_____
Date: 02/14/08_____

Wetland ID: ENSR# W-03-TO-021/NU# W20-21
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C

Shrubs: Highbush blueberry (Vaccinium corymbosum) - C
Japanese barberry (Berberis thunbergii) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) - C
Cinnamon fern (Osmunda cinnamomea) - C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area ponded | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____X____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 52C - Sutton fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 404 _____
Observers: T. Ramborger/R. Lloyd_____
Date: 02/14/08_____

Wetland ID: ENSR# W-03-TO-022/NU# w20-22
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Multiflora Rose (Rosa multiflora) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Elderberry (Sambucus sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 75E - Hollis-Chatfield-Rock Outcrop complex, 15-45% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 200 feet north | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ___
Flag Series: 100 – 111 & 200 - 217_____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/14/08_____

Wetland ID: ENSR# W-03-TO-023/NU# w20-23
Town: Columbia, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____
_____
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - C
Ironwood (Carpinus caroliniana) - C
Highbush blueberry (Vaccinium corymbosum) - C
Spicebush (Lindera benzoin) - C
_____

Herbs/Forbes:
Tussock sedge (Carex stricta) - C
Sensitive fern (Onoclea sensibilis) - C
Sedges (Carex spp.) - C
Skunk cabbage (Symplocarpus foetidus) - C
Reed canary grass (Phalaris arundinacea) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 21A - Ninigret & Tisbury soils & 101 – Occum fsl

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Willimantic Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ___
Flag Series: 100 – 115 & 200 - 217_____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/18/08_____

Wetland ID: ENSR# W-03-TO-024/NU# w20-24
Town: Columbia/Coventry, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) – C
_____
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Shrubs: Maleberry (Lyonia ligustrina) - A
Speckled alder (Alnus rugosa) - A
Honeysuckle (Lonicera sp.) - A
Silky dogwood (Cornus amomum) - C

Herbs/Forbes:
Reed canary grass (Phalaris arundinacea) - A
Sedges (Carex spp.) - A
Sensitive fern (Onoclea sensibilis) - C
Sphagnum moss (Sphagnum sp.) - C
Skunk cabbage (Symplocarpus foetidus) – C
Cinnamon fern (Osmunda cinnamomea) –C
Tussock sedge (Carex stricta) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 – Timakwa & Natchaug soils; 101 – Occum fsl; and 102-Pootatuck fsl

River/Stream Data: Hop River (R3UBH) (S-03-TO-001) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: > 5' | | Bank Height: > 5' | | Channel Width >50' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate **X** | Fast | | Bank Configuration: | Undercut - **X** | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel **X** | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 200 feet south | Y | N | Y | N | Y | N | |

**Town of Coventry, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 303 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/18/08 _____

Wetland ID: ENSR# W-03-TO-025/NU# W20-25
Town: Coventry, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Honeysuckle (Lonicera sp.) - C

Saplings/Lianas:

Greenbrier (Smilax sp.) - C

Herbs/Forbes:

Goldenrod (Solidago sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Area ponded | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 305 - Udorthents-Pits complex, gravelly

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 300 feet north | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ___
Flag Series: 300 - 323_____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/18/08_____

Wetland ID: ENSR# W-03-TO-026/NU# w20-26
Town: Coventry, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Shrubs: Ironwood (Carpinus caroliniana) - C
Silky dogwood (Cornus amomum) - C
Honeysuckle (Lonicera sp.) - C
Multiflora rose (Rosa multiflora) - C

Herbs/Forbes:
Tussock sedge (Carex stricta) - C
Sensitive fern (Onoclea sensibilis) - C
Sphagnum moss (Sphagnum sp.) - C
Skunk cabbage (Symplocarpus foetidus) - C
Christmas fern (Polystichum acrostichoides) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | C | Sandy loam | 10 YR 3/2 | -- |
| 12+ | R | -- | -- | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 300 feet north | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ___
Flag Series: 400 – 407 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/18/08_____

Wetland ID: ENSR# W-03-TO-027/NU# W20-27
Town: Coventry, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PEM/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Shrubs: Meadowsweet (Spiraea latifolia) - C
_____
_____
_____
_____

Herbs/Forbes:
Steeplebush (Spiraea tomentosa) - A
Reed canary grass (Phalaris arundinacea) - A
Woolgrass (Scirpus cyperinus) - C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Area identified as Vernal Pool/Amphibian breeding habitat | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 150 feet south | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 314 /288-300 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/18/08 _____

Wetland ID: ENSR# W-03-TO-028/NU# W20-28
Town: Coventry, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Multiflora rose (Rosa multiflora) - A
Ironwood (Carpinus caroliniana) - C
Japanese barberry (Berberis thunbergii) - C
Gray birch (Betula populifolia) - C
Winged Euonymus (Euonymus alata) - S

Saplings/Lianas: N/A

Herbs/Forbes: Sedges (Carex spp.) - C
Cinnamon fern (Osmunda cinnamomea) - C
Reed canary grass (Phalaris arundinacea) - C
Sensitive fern (Onoclea sensibilis) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Fine sandy loam/ silt loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 150 feet south | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 400 - 419_____
Observers: T. Ramborger/J. Kennedy_____
Date: 02/19/08 _____

Wetland ID: ENSR# W-03-TO-030/NU# w20-29
Town: Coventry, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
Yellow birch (Betula alleghaniensis) - C

Shrubs: Witch-hazel (Hamamelis virginiana) - C
Ironwood (Carpinus caroliniana) - C

Saplings/Lianas:

Herbs/Forbes: Sedges (Carex spp.) - A
Christmas fern (Polystichum acrostichoides) - A
Phalaris (Phalaris arundinacea) - C
Soft rush (Juncus effuses) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 75E - Hollis-Chatfield-Rock Outcrop complex, 15-45% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet north | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 100 – 107 & 200 – 204_____
Observers: T. Ramborger/J. Kennedy _____
Date: 02/19/08_____

Wetland ID: ENSR# W-03-TO-029/NU# W20-30
Town: Coventry, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____

Shrubs: Multiflora rose (Rosa multiflora) - C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) - A
Cattails (Typha latifolia) - A
Sphagnum moss (Sphagnum sp.) - C
Cinnamon fern (Osmunda cinnamomea) - C
Tussock sedge (Carex stricta) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area Ponded | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils and 109 - Fluvaquents-Udifluvents complex, frequently flooded

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Flanders River Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 107; 200 – 207; & 300 – 303 __
Observers: T. Ramborger/J. Kennedy _____
Date: 02/19/08_____

Wetland ID: ENSR# W-03-TO-031/NU# w20-31
Town: Coventry-Mansfield, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____
_____
_____
_____

Shrubs: _____N/A_____
_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) - A
Reed canary grass (Phalaris arundinacea) - C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Area flooded | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 109 – Fluvaquents-Udifluvents complex, frequently flooded

River/Stream Data: Willimantic River (S-03-TO-002) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: > 5' | | Bank Height: > 5' | | | Channel Width > 50' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate **X** | Fast | | Bank Configuration: | Undercut | Vertical--**X** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 600 feet south | Y | N | Y | N | Y | N | |

**Town of Mansfield, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 305 _____
Observers: T. Ramborger/J. Berg_____
Date: 02/19/08 & 05/01/08_____

Wetland ID: ENSR# W-03-TO-31A/NU# W20-32
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage): Area actively disturbed by 4--Wheelers

Trees: _____N/A_____

Shrubs: Willow (Salix sp.) - A
Gray birch (Betula populifolia) - C

Saplings/Lianas: _____N/A_____

Herbs/Forbes: Sedges (Carex spp.) - A
Steeplebush (Spiraea tomentosa) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area ponded | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 19 | C | Sand | 10 YR 5/3 | -- |
| 19+ | C | Sand | 2.5 Y 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 305 – Udorthents-Pits complex, gravelly

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 850 feet south | Y | N | Y | N | Y | N | |

RR tracks abut this area to the south

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 301 – 320 _____
Observers: J. Gass/R. Lloyd_____
Date: 02/28/08_____

Wetland ID: ENSR# W-03-TO-032/NU# W20-33
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D

Shrubs: Winterberry (Ilex verticillata) - D
Speckled alder (Alnus rugosa) - C
Highbush blueberry (Vaccinium corymbosum) -C

Saplings/Lianas: N/A

Herbs/Forbes: Skunk cabbage (Symplocarpus foetidus) - A
Cinnamon fern (Osmunda cinnamomea) - C
Sphagnum moss (Sphagnum sp.) -C
Tussock sedge (Carex stricta) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Mound & Pool micro-relief | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | N 2.5/0 | -- |
| 8+ | R | -- | -- | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 21A - Ninigret & Tisbury soils, 0-5% slopes

River/Stream Data: S-03-TO-003 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 450 feet southwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 301 – 330 _____
Observers: J. Gass/R. Lloyd_____
Date: 02/20/08_____

Wetland ID: ENSR# W-03-TO-033/NU# w20-34
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D
White oak (Quercus alba) - C
Yellow birch (Betula alleghaniensis) - C

Shrubs: Spicebush (Lindera benzoin) - D
Winterberry (Ilex verticillata) - C

Saplings/Lianas: N/A

Herbs/Forbes: Cinnamon fern (Osmunda cinnamomea) - C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Mound & Pool micro-relief | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | N 2.5/0 | -- |
| 8+ | R | -- | -- | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils and 21A - Ninigret & Tisbury soils, 0-5% slopes

River/Stream Data: S-03-TO-003 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,000 feet southwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 301 – 320 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/20/08 _____

Wetland ID: ENSR# W-03-TO-034/NU# w20-35
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Spicebush (Lindera benzoin) - D
Silky dogwood (Cornus amomum) - A
Speckled alder (Alnus rugosa) - C
Ironwood (Carpinus caroliniana) - C
Meadowsweet (Spiraea latifolia) - C

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Jewelweed (Impatiens capensis) - C
Sphagnum moss (Sphagnum sp.) - C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | N 2.5/0 | -- |
| 8+ | R | -- | -- | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils and 38C – Hinckley gsl, 3-15% slopes

River/Stream Data: S-03-TO-004 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,600 feet south | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 301 – 320 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/20/08 _____

Wetland ID: ENSR# W-03-TO-035/NU# w20-36
Town: Mansfield, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D
_____
_____
_____
_____

Shrubs: Spicebush (Lindera benzoin) - D
Winterberry (Ilex verticillata) - C
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) - A
Skunk cabbage (Symplocarpus foetidus) - C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Mound & Pool micro-relief | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 15+ | O | Muck | 10 YR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils; 21A - Ninigret & Tisbury soils, 0-5% slopes; and 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: S-03-TO-004 (A) & S-03-TO-005 (B) ____**X (A & B)**_____ Perennial _____ Intermittent

| Depth @ Center: 6 - 8" | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,600 feet south | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 301 – 314 _____
Observers: J. Gass/R. Lloyd_____
Date: 02/21/08_____

Wetland ID: ENSR# W-03-TO-038/NU# w20-37
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D
Shagbark hickory (Carya ovata) - S
_____
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) - S
Speckled alder (Alnus rugosa) - S
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

_____N/A_____
_____
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 58C - Gloucester gsl, 8-15% slopes

River/Stream Data: S-03-TO-005 ___**X**_____ Perennial _____ Intermittent

| Depth @ Center: 6 - 8” | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,300 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 401 – 421 _____
Observers: J. Gass/R. Lloyd_____
Date: 02/21/08 _____

Wetland ID: ENSR # W-03-TO-037/NU# w20-38
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) - D
Maleberry (Lyonia ligustrina) - D
Meadowsweet (Spiraea latifolia) - C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Dewberry (Rubus flagellaris) - D
Steeplebush (Spiraea tomentosa) - C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded --**X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Standing water | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 58C - Gloucester gsl, 8-15% slopes and 86D - Paxton & Montauk fsl, 15-25% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 101 – 132 & 201 – 228 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/21/08 _____

Wetland ID: ENSR# W-03-TO-036/NU# W20-39
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D
Green ash (Fraxinus pennsylvanica) - C
Yellow birch (Betula alleghaniensis) - C

Shrubs: Spicebush (Lindera benzoin) -C
Ironwood (Carpinus caroliniana) -S

Saplings/Lianas: _____N/A_____

Herbs/Forbes: Christmas fern (Polystichum acrostichoides) - C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Mound & Pool micro-relief | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | Oa | Muck | 10 YR 2/1 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony & 58C - Gloucester gsl, 8-15% slopes

River/Stream Data: S-03-TO-005 ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6 - 8" | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 304 _____
Observers: T. Ramborger/J. Stearns/T. Braman
Date: 02/25/08_____

Wetland ID: ENSR# W-03-TO-039/NU# w20-40
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: White pine (Pinus strobus) - A

Shrubs: Highbush blueberry (Vaccinium corymbosum) - C

Saplings/Lianas: _____N/A_____

Herbs/Forbes: _____N/A_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 46B - Woodbridge fsl, 2-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 100 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 111 & 200 – 209 _____
Observers: T. Ramborger/J. Stearns/T. Braman
Date: 02/25/08 _____

Wetland ID: ENSR# W-03-TO-040/NU# W20-41
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Maleberry (Lyonia ligustrina) - A
Highbush blueberry (Vaccinium corymbosum) - C
Witch-hazel (Hamamelis virginiana) - C

Saplings/Lianas:

Herbs/Forbes:
Reed canary grass (Phalaris arundinacea) - C
Sedges (Carex spp.) - C
Cinnamon fern (Osmunda cinnamomea) - C
Phragmites (Phragmites australis) - C
Steeplebush (Spiraea tomentosa) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area identified as Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves --**X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Fine sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 46B - Woodbridge fsl, 2-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 225 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 317 _____
Observers: T. Ramborger/J. Stearns/T. Braman __
Date: 02/25/08_____

Wetland ID: ENSR# W-03-TO-041/NU# W20-42
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Witch-hazel (Hamamelis virginiana) - A

Saplings/Lianas:

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) – C
Sedges (Carex spp.) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Also – Elevated root systems Ponded | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: 61C – Canton & Charlton soils, 8-15% slopes, very stony and 62C – Canton & Charlton soils, 8-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 314 _____
Observers: T. Ramborger/J. Stearns/T. Braman
Date: 02/25/08_____

Wetland ID: ENSR# W-03-TO-042/NU# W20-43*
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
_____
_____
_____
_____

Shrubs: Witch-hazel (Hamamelis virginiana) - A
Japanese barberry (Berberis thunbergii) - S
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) - C
Sedges (Carex spp.) - C
Sphagnum moss (Sphagnum sp.) - C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 3/2 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 5/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 62C - Canton & Charlton soils, 8-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet west | Y | N | Y | N | Y | N | |

* W03to042 & W03to043 combined to form w20-43

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 107 & 200 – 210 _____
Observers: T.Ramborger/J. Stearns/T. Braman___
Date: 02/25/08 _____

Wetland ID: ENSR# W-03-TO-043/NU# W20-43*
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
_____
_____

Shrubs: Witch-hazel (Hamamelis virginiana) - C
Highbush blueberry (Vaccinium corymbosum) - C
Arrowwood (Viburnum sp.) - C

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C
Skunk cabbage (Symplocarpus foetidus) -C
Cattails (Typha latifolia) - C
Phragmites (Phragmites australis) –C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Area identified as Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils and 62C - Canton & Charlton soils, 8-15% slopes, extremely stony

River/Stream Data: S-03-TO-007 ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 4-8" | | Bank Height: 1-3' | | | Channel Width 5 – 10' | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual **X** |
| Substrate %: | Peat-Muck **X** | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,500 feet west | Y | N | Y | N | Y | N | |

* W03to042 & W03to043 combined to form w20-43

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 106 & 200 - 208_____
Observers: T. Ramborger/J. Stearns/T. Braman
Date: 02/25/08 _____

Wetland ID: ENSR# W-03-TO-044/NU# W20-44
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Witch-hazel (Hamamelis virginiana) - C
Multiflora rose (Rosa multiflora) -C

Saplings/Lianas: N/A

Herbs/Forbes:
Phragmites (Phragmites australis) - A
Cinnamon fern (Osmunda cinnamomea) -C
Sensitive fern (Onoclea sensibilis) -C
Cattails (Typha latifolia) -C
Marsh marigold (Caltha palustris) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area identified as Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: Conantville Brook (S-03-TO-006) ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 3 – 5' | Notes: | | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,700 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 306 _____
Observers: T. Ramborger/J.Stearns/T. Braman
Date: 02/27/08 _____

Wetland ID: ENSR# W-03-TO-045/NU# w20-45
Town: Manchester, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Multiflora rose (Rosa multiflora) - C
Spicebush (Lindera benzoin) -C
Japanese barberry (Berberis thunbergii) - C

Saplings/Lianas: N/A

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) - A
Cinnamon fern (Osmunda cinnamomea) - C
Sedges (Carex spp.) - C
Sensitive fern (Onoclea sensibilis) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 85B - Paxton & Montauk fsl, 8-15% slopes, very stony

River/Stream Data: S-03-TO-009 _____ Perennial ____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2 – 3" | | Bank Height: 1 – 3' | | Channel Width 4 – 6' | Notes: | | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,600 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 105; 200 – 206; & 300 - 305___
Observers: T. Ramborger/J. Stearns/T. Braman
Date: 02/27/08_____

Wetland ID: ENSR# W-03-TO-046/NU# W20-46
Town: Mansfield, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Multiflora rose (Rosa multiflora) - A
Speckled alder (Alnus rugosa) - C
Spicebush (Lindera benzoin) - C
Japanese barberry (Berberis thunbergii) - C

Saplings/Lianas: N/A

Herbs/Forbes: Cinnamon fern (Osmunda cinnamomea) -C
Cattails (Typha latifolia) -C
Sedges (Carex spp.) - C
Goldenrod (Solidago sp.) - C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
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Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-TO-010 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 2 – 3" | | Bank Height: 1 – 3' | | Channel Width 3 – 5' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 108 & 200 – 208 _____
Observers: T. Ramborger/J. Stearns/T.Braman
Date: 02/27/08_____

Wetland ID: ENSR# W-03-TO-047/NU# W20-47
Town: Mansfield, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: PUB_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -C

Shrubs: Multiflora rose (Rosa multiflora) - C
Japanese barberry (Berberis thunbergii) - C

Saplings/Lianas: N/A

Herbs/Forbes: Reed canary grass (Phalaris arundinacea) - C
Cinnamon fern (Osmunda cinnamomea) - C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-TO-011 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 6 – 12" | | Bank Height: > 5' | | Channel Width 15 – 20' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 500 feet northeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 -107 & 200 - 209_____
Observers: T. Ramborger/J. Stearns/T. Braman
Date: 02/27/08_____

Wetland ID: ENSR# W-03-TO-048/NU# W20-48
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Honeysuckle (Lonicera sp.) - A
Multiflora rose (Rosa multiflora) - C
Japanese barberry (Berberis thunbergii) - A

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -C
Sensitive fern (Onoclea sensibilis) - C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | A | Sandy loam | 10 YR 2/1 | -- |
| 10 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-TO-012 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 2 – 3" | | Bank Height: 1 – 3' | | | Channel Width 2 – 3' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 450 feet northeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 405 _____
Observers: T. Ramborger/J.Stearns/T.Braman
Date: 02/27/08 _____

Wetland ID: ENSR# W-03-TO-049/NU# w20-49
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Honeysuckle (Lonicera sp.) - S

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Reed canary grass (Phalaris arundinacea) - D
Goldenrod (Solidago sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Inundated soils | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 5/2 | Many fine 10 YR 3/3 |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony & 46C - Woodbridge fsl, 2-15% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 150 feet northeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 307 _____
Observers: T.Ramborger/J. Stearns/T.Braman
Date: 02/28/08 _____

Wetland ID: ENSR# W-03-TO-050/NU# W20-50
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: PEM _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Silky dogwood (Cornus amomum) - C

Saplings/Lianas:

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area identified as Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 46B - Woodbridge fsl, 2-8% slopes, very stony & 73E - Charlton-Chatfield complex, 15-45% slopes, very rocky

River/Stream Data: S-03-TO-013 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 1 - 2” | | Bank Height: 1 - 2’ | | Channel Width 1 - 2’ | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 150 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 407 _____
Observers: T. Ramborger/J. Stearns/T.Braman
Date: 02/28/08 _____

Wetland ID: ENSR# W-03-TO-051/NU# w20-51
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Gray birch (Betula populifolia) - S

Saplings/Lianas:
_____N/A_____

Herbs/Forbes:
Steeplebush (Spiraea tomentosa) - D
Woolgrass (Scirpis cyperinus) - A
Soft rush (Juncus effuses) - C
Sphagnum moss (Sphagnum sp.) - C
Haircap moss (Polytrichum commune) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | C | Mucky very fine sandy loam | 10 Yr 2/1 | -- |
| 10+ | R* | | | |
| | | | | |
| | | | | |

* Depth varies 10 – 16 inches in the area

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,000 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 104 & 200 – 206 _____
Observers: T. Ramborger/J.Stearns/T.Braman
Date: 02/28/08_____

Wetland ID: ENSR# W-03-TO-052/NU# W20-52
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Witch-hazel (Hamamelis virginiana) - A
Honeysuckle (Lonicera sp.) - C
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Steeplebush (Spiraea tomentosa) -A
Sedges (Carex spp.) -C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73E - Charlton-Chatfield complex, 15 – 45% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,500 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 312 _____
Observers: T. Ramborger/J. Stearns/T.Braman
Date: 02/28/08_____

Wetland ID: ENSR# W-03-TO-053/NU# W20-53
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D
Yellow birch (Betula alleghaniensis) - C
_____
_____
_____

Shrubs: _____N/A_____
_____
_____
_____
_____

Saplings/Lianas:

Beech (Fagus grandifolia) - C
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) - A
Cinnamon fern (Osmunda cinnamomea) -C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Also –<br>Ponded<br>Area contains a Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 2 | A | Fine sandy loam | 10 YR 2/1 | -- |
| 2 - 8 | Bw | Loamy sand | 10 YR 6/1 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73E - Charlton-Chatfield complex, 15 – 45% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,000 feet southwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 309 _____
Observers: T. Ramborger/J/ Stearns/T.Braman
Date: 02/28/08_____

Wetland ID: ENSR# W-03-TO-054/NU# w20-54
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____

Shrubs: Gray birch (Betula populifolia) -C

Saplings/Lianas:

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) - A
Sedges (Carex spp.) - C
Reed canary grass (Phalaris arundinacea) - C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 4 | A | Sandy loam | 10 YR 2/1 | -- |
| 4 - 12 | Bw | Sandy loam | 10 YR 6/1 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3 – 15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,500 feet southwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 115; 200 – 209; 400 – 406 & 400A – 413A
Observers: T. Ramborger/J.Stearns/T.Braman
Date: 02/28/08 _____

Wetland ID: ENSR# W-03-TO-055/NU# W20-55
Town: _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: PEM _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Witch-hazel (Hamamelis virginiana) - A

Saplings/Lianas: _____N/A_____

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C
Sedges (Carex spp.) - C
Steeplebush (Spiraea tomentosa) - C
Reed canary grass (Phalaris arundinacea) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 85B - Paxton & Montauk fsl, 3-8% slopes, very stony

River/Stream Data: S-03-TO-014 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | | Channel Width 2 – 3' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,300 feet southwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 106 & 200 – 211 _____
Observers: T.Ramborger/J.Stearns/T.Braman
Date: 03/03/08_____

Wetland ID: ENSR# W-03-TO-056/NU# w20-56
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Saplings/Lianas:

Shrubs: Honeysuckle (Lonicera sp.) -C
Silky dogwood (Cornus amomum) - C
Speckled alder (Alnus rugosa) - C
Spicebush (Lindera benzoin) -C

Herbs/Forbes:

Tussock sedge (Carex stricta) - A
Cattails (Typha latifolia) - C
Cinnamon fern (Osmunda cinnamomea) -C
Marsh marigold (Caltha palustris) - C
Phragmites (Phragmites australis) – C
Sensitive fern (Onoclea sensibilis) – C
Sphagnum moss (Sphagnum sp.) –C
Skunk cabbage (Symplocarpus foetidus) – C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 62D - Canton & Charlton soils, 15 – 35% slopes, extremely stony

River/Stream Data: Sawmill Brook (S-03-TO-015) ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 1- 3' | | Bank Height: 3 – 5' | | Channel Width 10 – 20' | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual --**X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders -- **X** | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 4,200 feet southwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ___
Flag Series: 300 – 308 _____
Observers: T. Ramborger/J. Stearns/T.Braman
Date: 03/03/08_____

Wetland ID: ENSR# W-03-TO-057/NU# w20-57
Town: Mansfield, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) – A
Yellow birch (Betula alleghaniensis) - C
Beech (Fagus grandifolia) - C

Saplings/Lianas:
N/A

Shrubs: Spicebush (Lindera benzoin) - C
Witch-hazel (Hamamelis virginiana) -C

Herbs/Forbes:
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 62D - Canton & Charlton soils, 15 – 35% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 4,300 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 108; 200 – 209; 300 – 312; & 300A – 306A
Observers: T. Ramborger/J. Stearns/T.Braman
Date: 03/03/08_____

Wetland ID: ENSR# W-03-TO-058/NU# W20-58
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - D

Shrubs: Speckled alder (Alnus rugosa) - C
Highbush blueberry (Vaccinium corymbosum) -C
Maleberry (Lyonia ligustrina) -C

Saplings/Lianas: _____N/A_____

Herbs/Forbes: Steeplebush (Spiraea tomentosa) -A
Cattails (Typha latifolia) -C
Woolgrass (Scirpus cyperinus) -C
Sensitive fern (Onoclea sensibilis) -C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 7 | A | Sandy loam | 10 YR 2/1 | -- |
| 7 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 85B & 85C - Paxton & Montauk fsl, 3-15% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,800 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 303 _____
Observers: T.Ramborger/J.Stearns/T.Braman
Date: 03/03/08 _____

Wetland ID: ENSR# W-03-TO-059/NU# w20-59
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) A
Yellow birch (Betula alleghaniensis) -A
Beech (Fagus grandifolia) -C

Shrubs: _____N/A_____

Saplings/Lianas: _____N/A_____

Herbs/Forbes: Cinnamon fern (Osmunda cinnamomea) -C
Sphagnum moss (Sphagnum sp.) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 - 12 | Bw | Sandy loam | 10 YR 5/2 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 85B - Paxton & Montauk fsl, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,500 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 405 _____
Observers: T. Ramborger/J.Stearns/T.Braman
Date: 03/03/08_____

Wetland ID: ENSR# W-03-TO-060/NU#w20-60
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Spicebush (Lindera benzoin) - C
Multiflora rose (Rosa multiflora) - C
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -C
Sensitive fern (Onoclea sensibilis) - C
Goldenrod (Solidago sp.) - C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 9 | A | Sandy loam | 10 YR 2/1 | -- |
| 9 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 85B - Paxton & Montauk fsl, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 107 & 200 - 207_____
Observers: T. Ramborger/J.Stearns/T.Braman
Date: 03/03/08_____

Wetland ID: ENSR# W-03-TO-061/NU# W20-61
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
_____
_____
_____
_____

Shrubs: Japanese barberry (Berberis thunbergii) -A
Honeysuckle (Lonicera sp.) - C
_____
_____
_____

Saplings/Lianas:

_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) - C
Sphagnum moss (Sphagnum sp.) - C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-TO-016 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 1 – 3" | | Bank Height: 1 - 3' | | | Channel Width 2 - 4' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet northeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: *_____
Observers: T. Ramborger/J. Kennedy
Date: 03/04/08_____

Wetland ID: ENSR# W-03-TO-062/NU# W20-62
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sedges (Carex spp.) - C
Cattails (Typha latifolia) -C
Soft rush (Juncus effuses) -C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 13 - Walpole sl; 15 - Scarboro muck; and 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: S-03-TO-017 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1-3' | | Channel Width 2-3' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel -- **X** | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 600 feet southwest | Y | N | Y | N | Y | N | |

* Area actively used to graze cattle, therefore no flags were left. Points surveyed in-place using Trimble GPS equipment.

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: *_____
Observers: T. Ramborger/J. Kennedy
Date: 03/04/08_____

Wetland ID: ENSR# W-03-TO-062/NU# w20-62A,B,C
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: none_____

Shrubs: Steeplebush (Spiraea tomentosa) C [FACW]

Saplings/Lianas:

none_____

Herbs/Forbes:

Sedges (Carex spp.) C [various]
Cattails (Typha latifolia) C [OBL]
Soft rush (Juncus effuses) C [FACW+]

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves | | Water Marks -- **X** | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | C1 | fine sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | C2 | very gravelly sandy loam | 2.5 Y 3/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 13 - Walpole sl; 15 - Scarboro muck; and 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 600 feet southwest | Y | N | Y | N | Y | N | |

* Area actively used to graze cattle, therefore no flags were left. Points surveyed in-place using Trimble GPS equipment. W20-62 A, B & C are 3 farm ponds with fringe emergent wetlands interconnected by culverts (both within and outside the right-of-way).

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 306 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/04/08_____

Wetland ID: ENSR# W-03-TO-064/NU# W20-63
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: White pine (Pinus strobus) - C
_____
_____

Saplings/Lianas:
_____
_____
_____
_____
_____

Shrubs: Pepperbush (Clethra alnifolia) -A
Speckled alder (Alnus rugosa) -A
Meadowsweet (Spiraea latifolia) -C

Herbs/Forbes:
Woolgrass (Scirpis cyperinus) -A
Sphagnum moss (Sphagnum sp.) -A
Sensitive fern (Onoclea sensibilis) -C
Steeplebush (Spiraea tomentosa) -C
Cattails (Typha latifolia) –C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area contains a Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: S-03-TO-018 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 6 – 12" | | Bank Height: 1 – 3' | | | Channel Width 4 – 6' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck **X** | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet southeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 310 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/04/08_____

Wetland ID: ENSR# W-03-TO-063/NU# W20-64
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Shrubs: Pepperbush (Clethra alnifolia) - A
_____
_____

Herbs/Forbes:
Woolgrass (Scirpus cyperinus) -A
Sedges (Carex spp.) -A
Sphagnum moss (Sphagnum sp.) -A
Skunk cabbage (Symplocarpus foetidus) -C
Cattails (Typha latifolia) –C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also-- | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24 | Oa | Muck | N 2.5/0 | -- |
| 24+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet southeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 308 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/04/08 _____

Wetland ID: ENSR# W-03-TO-065/NU# W20-65
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PUB_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage): Mansfield Hollow Reservoir

Trees: White pine (Pinus strobus) - D
Red maple (Acer rubrum) -C

Shrubs: Silky dogwood (Cornus amomum) - C

Saplings/Lianas:

Herbs/Forbes: Cinnamon fern (Osmunda cinnamomea) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded -- **X** | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Reservoir area | | Silt Deposition | | Water-Stained Leaves | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 350 feet northwest | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 -103 & 200 - 203 /204-208 & 96-99
Observers: T. Ramborger/J. Kennedy _____
Date: 03/04/08_____

Wetland ID: ENSR# W-03-TO-066/NU# W20-66
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PUB_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage): Mansfield Hollow Reservoir

Trees: _____N/A_____

Shrubs: _____N/A_____

Saplings/Lianas: _____N/A_____

Herbs/Forbes: _____N/A_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded -- **X** | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Reservoir area | | Silt Deposition | | Water-Stained Leaves | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: Water _____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as W - Water

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,000 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 - 305_____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/06/08_____

Wetland ID: ENSR# W-03-TO-067/NU# w20-67
Town: Mansfield, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
_____
_____

Shrubs: Ironwood (Carpinus caroliniana) -C
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Sedges (Carex spp.) - A
_____
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Sandy loam | 10 YR 2/1 | -- |
| 12 – 20+ | Bw | Loamy sand | 2.5 Y 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-TO-019 ____X_____ Perennial _____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 4 – 8' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles -- **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Bedlam Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 340 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/06/08 _____

Wetland ID: ENSR# W-03-TO-068/NU# W20-68
Town: Mansfield-Chaplin, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: PFO/PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____

Shrubs: Pepperbush (Clethra alnifolia) -A
Speckled alder (Alnus rugosa) -A
_____

Saplings/Lianas:
_____
_____
_____
_____

Herbs/Forbes:
Tussock sedge (Carex stricta) - D
Cinnamon fern (Osmunda cinnamomea) -A
Sensitive fern (Onoclea sensibilis) - A
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Inundated soils Area Ponded Area identified as Vernal Pool/Amphibian breeding habitat | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 60B – Canton & Charlton soils, 3-8% slopes

River/Stream Data: S-03-TO-020 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 4 – 8' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles -- **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Bedlam Road | Y | N | Y | N | Y | N | |

**Town of Chaplin, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 110 & 200 - 212_____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/06/08_____

Wetland ID: ENSR# W-03-WI-069/NU# W20-69
Town: _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____
_____
_____

Shrubs: Honeysuckle (Lonicera sp.) -A
Ironwood (Carpinus caroliniana) -C
Highbush blueberry (Vaccinium corymbosum) - C
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Sedges (Carex spp.) - A
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C
Skunk cabbage (Symplocarpus foetidus) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 2.5 Y 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: S-03-WI-021 _____ Perennial _____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2 – 4" | | Bank Height: 1–2' | | Channel Width 4-6' | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 105 & 200 – 204 /106-144, 205-226 & 300-308
Observers: T. Ramborger/J. Kennnedy_____
Date: 03/06/08_____

Wetland ID: ENSR# W-03-WI-070/NU# w20-70
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS/PEM _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Silky dogwood (Cornus amomum) -A

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Tussock sedge (Carex stricta) -D
Skunk cabbage (Symplocarpus foetidus) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~2,500 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 303 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/06/08 _____

Wetland ID: ENSR# W-03-WI-071/NU# W20-71
Town: Chaplin, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -D

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -C
Tussock sedge (Carex stricta) -C
Woolgrass (Scirpus cyperinus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded --**X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also— | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Ponding | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,500 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 415 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/06/08 _____

Wetland ID: ENSR# W-03-WI-072/NU# W20-72
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____

Shrubs: Meadowsweet (Spiraea latifolia) -A
Silky dogwood (Cornus amomum) -A
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Cinnamon fern (Osmunda cinnamomea) -C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,700 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 113 & 200 – 204 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/06/08 _____

Wetland ID: ENSR# W-03-WI-073/NU# W20-73
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: R3UBH_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Hemlock (Tsuga canadensis) - C
White pine (Pinus strobus) -C
_____
_____

Shrubs: Speckled alder (Alnus rugosa) -A
Meadowsweet (Spiraea latifolia) -C
Silky dogwood (Cornus amomum) -C
_____
_____

Saplings/Lianas:

_____
_____
_____
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) - A
Sensitive fern (Onoclea sensibilis) -A
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils and 101 - Occum fsl

River/Stream Data: Natchaug River (S-03-WI-022) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: >5' | | Bank Height: >5' | | | Channel Width >50' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,000 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 305 /294-299, 306-317 & 300-340
Observers: T. Ramborger/J. Kennedy _____
Date: 03/07/08_____

Wetland ID: ENSR# W-03-WI-074/NU# w20-74
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Hemlock (Tsuga canadensis) - A
Red maple (Acer rubrum) - A

Shrubs: Highbush blueberry (Vaccinium corymbosum) - C

Saplings/Lianas:

Herbs/Forbes:
Sphagnum moss (Sphagnum sp.) - A
Skunk cabbage (Symplocarpus foetidus) -A
Tussock sedge (Carex stricta) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | Oa | Muck | N 2.5/0 | -- |
| 6 – 20+ | C | Course sand | 10 YR 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: S-03-WI-023 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 5 – 10' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,800 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 316 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/07/08_____

Wetland ID: ENSR# W-03-WI-076/NU# w20-75
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A____

Shrubs: Maleberry (Lyonia ligustrina) - A

Saplings/Lianas:
_____N/A_____

Herbs/Forbes:
Tussock sedge (Carex stricta) - A
Sensitive fern (Onoclea sensibilis) - A
Phragmites (Phragmites australis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Also –<br>Inundated soil | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24 | Oa | Muck | N 2.5/0 | -- |
| 24+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: 18 - Catden & Freetown

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,300 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 318 _____
Observers: T. Ramborger/J.Kennedy_____
Date: 03/07/08_____

Wetland ID: ENSR# W-03-WI-075/NU# W20-76
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Shrubs: Ironwood (Carpinus caroliniana) - A

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Tussock sedge (Carex stricta) -A
Skunk cabbage (Symplocarpus foetidus) -A
Sedges (Carex spp.) - C
Sensitive fern (Onoclea sensibilis) -C
Sphagnum moss (Sphagnum sp.) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 4/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils

River/Stream Data: S-03-WI-024 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 5 – 8' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 329 & 400 - 408_____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/07/08 _____

Wetland ID: ENSR# W03-WI-077/NU# W20-77
Town: Chaplin , CT_____
Weather: _____
Time: _____

Dominant NWI Class: POW/PSS/PFO_____ Other NWI Classes: PFO, POW, PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
White pine (Pinus strobus) - A
Hemlock (Tsuga canadensis) -A

Shrubs: Speckled alder (Alnus rugosa) -A
Maleberry (Lyonia ligustrina) -C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Cinnamon fern (Osmunda cinnamomea) -C
Sedges (Carex spp.) - C
Skunk cabbage (Symplocarpus foetidus) -C
Sphagnum moss (Sphagnum sp.) –C
Tussock sedge (Carex stricta) -C
Woolgrass (Scirpus cyperinus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Also –<br>Inundated soils<br>Large ponded portion<br>Area identified as Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: S-03-WI-025 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 2' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

River/Stream Data: S-03-WI-026 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 2 – 4" | | Bank Height: 1 – 3' | | Channel Width 4 – 6' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel -- **X** | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Route 6 | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 405 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/07/08 _____

Wetland ID: ENSR# W-03-WI-079/NU# w20-78
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -C
_____

Saplings/Lianas:
_____N/A_____
_____

Herbs/Forbes:
Tussock sedge (Carex stricta) -C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Ponded | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: _____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck and 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 75 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 408 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/07/08 _____

Wetland ID: ENSR# W-03-WI-078/NU# w20-79
Town: Chaplin ,CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -C
_____

Saplings/Lianas:
_____N/A_____
_____

Herbs/Forbes:
Tussock sedge (Carex stricta) -C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Ponded | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: _____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck and 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 75 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 110 & 200 -213_____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/11/08_____

Wetland ID: ENSR# W-03-WI-080/NU# W20-80
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Pepperbush (Clethra alnifolia) -A
Highbush blueberry (Vaccinium corymbosum) -C

Saplings/Lianas:

N/A

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Sphagnum moss (Sphagnum sp.) - A
Tussock sedge (Scirpis cyperinus) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 20 | Oa | Muck | N 2.5/0 | -- |
| 20+ | C | Sandy loam | 2.5 Y 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils and 23A - Sudbury sl, 0-5% slopes

River/Stream Data: S-03-WI-027 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 6 – 24" | | Bank Height: 1 – 3' | | Channel Width 4 – 6' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 200 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100-109;200-213;200A-207A;300-307; & 400-417
Observers: T. Ramborger/J. Kennedy _____
Date: 03/11/08_____

Wetland ID: ENSR# W-03-WI-081/NU# W20-81
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -D
White pine (Pinus strobus) - C

Shrubs: Pepperbush (Clethra alnifolia) -A
Meadowsweet (Spiraea latifolia) -A
Speckled alder (Alnus rugosa) -A

Saplings/Lianas:

N/A

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Sphagnum moss (Sphagnum sp.) -A
Steeplebush (Spiraea tomentosa) -A
Cattails (Typha latifolia) C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Elevated root systems | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony & 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: S-03-WI-028 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 1 – 2' | | Bank Height: 1 – 3' | | Channel Width 5 – 10' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders | Artificial |

River/Stream Data: S-03-WI-029 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 3 – 6" | | Bank Height: 1 – 3' | | Channel Width 4-6' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 405 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/11/08_____

Wetland ID: ENSR# W-03-WI-082/NU# w20-82
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) - C
Witch-hazel (Hamamelis virginiana) - C
Highbush blueberry (Vaccinium corymbosum) - C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) – A
Cinnamon fern (Osmunda cinnamomea) -C
Sensitive fern (Onoclea sensibilis) -C
Sedges (Carex spp.) - C
Steeplebush (Spiraea tomentosa) C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Ponding | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 2.5 Y 5/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,800 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 309 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/12/08 _____

Wetland ID: ENSR# W-03-WI-083/NU# w20-83
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Hemlock (Tsuga canadensis) -A
Yellow birch (Betula alleghaniensis) -C
_____
_____
_____

Shrubs: Pepperbush (Clethra alnifolia) -A
Highbush blueberry (Vaccinium corymbosum) -C
Meadowsweet (Spiraea latifolia) -C
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Sedges (Carex spp.) -C
Steeplebush (Spiraea tomentosa) -C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 2.5 Y 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,200 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 113 & 200 - 210_____
Observers: T. Ramborger/J.Kennedy _____
Date: 03/12/08 _____

Wetland ID: ENSR# W-03-WI-084/NU# w20-84
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Pepperbush (Clethra alnifolia) - A
Highbush blueberry (Vaccinium corymbosum) -A

Saplings/Lianas:

N/A

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Cinnamon fern (Osmunda cinnamomea) -A
Sphagnum moss (Sphagnum sp.) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Portion ponded | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,400 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 338 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/12/08_____

Wetland ID: ENSR# W-03-WI-085/NU# W20-85
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: POW/PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Pepperbush (Clethra alnifolia) -A
Multiflora rose (Rosa multiflora) -C

Saplings/Lianas:

N/A

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Man-made Ponded portion | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and W - Water

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 121 & 200 – 205 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/12/08_____

Wetland ID: ENSR# W-03-WI-086/NU# W20-86
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PUB/PEM/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____ Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Tussock sedge (Carex stricta) -A
Cattails (Typha latifolia) -C
Sedges (Carex spp.) -C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded -- **X** | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Elevated root systems | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area ponded | | | |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck and 17 - Timakwa & Natchaug soils_____

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 600 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 - 331_____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/12/08_____

Wetland ID: ENSR# W-03-WI-087/NU# W20-87
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____
_____
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -A
_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -A
Sensitive fern (Onoclea sensibilis) -A
Goldenrod (Solidago sp.) -C
Sedges (Carex spp.) -C
Soft rush (Juncus effuses) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Area identified as Vernal Pool/Amphibian breeding habitat | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 62C - Canton & Charlton soils, 3-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT- Interstate Reliability Project ____
Flag Series: 100 – 109 & 200 - 212_____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/17/08_____

Wetland ID: ENSR# W-03-WI-088/NU# W20-88
Town: Chaplin, Ct_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
White pine (Pinus strobus) C

Shrubs: Ironwood (Carpinus caroliniana) -A
Pepperbush (Clethra alnifolia) - A
Maleberry (Lyonia ligustrina) - C

Saplings/Lianas:

N/A

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) - A
Cinnamon fern (Osmunda cinnamomea) -C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Also – Inundated Soils | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 16 | C | Sandy loam | 10 YR 2/1 | -- |
| 16+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: S-03-WI-030 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 1 - 2" | | Bank Height: 1 – 3' | | Channel Width 3 – 5' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,100 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 118; 200 – 217; & 300 - 311
Observers: T. Ramborger/J. Kennedy _____
Date: 03/17/08_____

Wetland ID: ENSR# W-03-WI-089/NU# W20-89
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS/POW_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) - A

Shrubs: Ironwood (Carpinus caroliniana) -A
Pepperbush (Clethra alnifolia) -C
Spicebush (Lindera benzoin) - C

Saplings/Lianas:

N/A

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) - A
Sedges (Carex spp.) -C
Skunk cabbage (Symplocarpus foetidus) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Also – Inundated soils Area identified as Vernal Pool/Amphibian breeding habitat | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | C | Sandy loam | 10 YR 2/1 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: Buttonball Brook (S-03-WI-031/s20-29) _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 6 – 12" | | Bank Height: 1 – 3' | | Channel Width 4 – 6' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,300 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 110; 200 -214 ; & 300 - 331
Observers: T. Ramborger/J. Kennedy _____
Date: 03/17/08_____

Wetland ID: ENSR# W-03-WI-090/NU# W20-91
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: POW/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A

Saplings/Lianas:

_____N/A_____

Shrubs: Multiflora rose (Rosa multiflora) -A
Spicebush (Lindera benzoin) -C

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) - C
Sensitive fern (Onoclea sensibilis) -C
Tussock sedge (Carex stricta) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded -- **X** | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat (Off ROW) | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 - 12 | Bw | Sandy loam | 10 YR 6/1 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils

River/Stream Data: ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6 – 12" | | Bank Height: 1 – 3' | | Channel Width 3 – 5' | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,300 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 403 _____
Observers: T.Ramborger/J.Kennedy _____
Date: 03/17/08_____

Wetland ID: ENSR# W-03-WI-091/NU# w20-90
Town: Chaplin, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red oak (Quercus rubra) - A

Saplings/Lianas:

_____N/A_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -C

Herbs/Forbes:

Sedges (Carex spp.) - C
Skunk cabbage (Symplocarpus foetidus) -C
Tussock sedge (Carex stricta) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Sandy loam | 10 YR 2/1 | -- |
| 12 - 15 | C | Sand | 2.5 Y 5/3 | -- |
| 15+ | R | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,800 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 327 _____
Observers: T.Ramborger/J.Kennedy _____
Date: 03/17/08 _____

Wetland ID: ENSR# W-03-WI-092/NU# W20-92
Town: Chaplin/Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____
_____
_____

Shrubs: Honeysuckle (Lonicera sp.) -A
Pepperbush (Clethra alnifolia) -C
Spicebush (Lindera benzoin) -C
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) -A
Sensitive fern (Onoclea sensibilis) - A
Sphagnum moss (Sphagnum sp.) - C
Skunk cabbage (Symplocarpus foetidus) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 16 | C | Sandy loam | 10 YR 2/1 | -- |
| 16+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 300 feet east | Y | N | Y | N | Y | N | |

**Town of Hampton, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 404 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/13/08 _____

Wetland ID: ENSR# W-03-WI-100/NU# w20-93
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Skunk cabbage (Symplocarpus foetidus) - C
Sphagnum moss (Sphagnum sp.) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated **X** | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Former RR bed accumulating water | | Silt Deposition | | Water-Stained Leaves | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: _____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | C | Sandy loam | 10 YR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 300 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 - 109 & 200 - 206_____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/13/08_____

Wetland ID: ENSR# W-03-WI-101//NU# W20-94
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) –A

Shrubs: Meadowsweet (Spiraea latifolia) –A
Speckled alder (Alnus rugosa) -C
Pepperbush (Clethra alnifolia) - C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -C
Reed canary grass (Phalaris arundinacea) -C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded --**X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Inundated soils Area identified as Vernal Pool/Amphibian breeding habitat | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 -10 | A | Sandy loam | 10 YR 2/1 | -- |
| 10 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 103 - Rippowam fsl

River/Stream Data: Merrick Brook (S-03-WI-036) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 1 – 3' | | Bank Height: 1 – 4' | | | Channel Width 10 – 15' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 131 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/13/08 _____

Wetland ID: ENSR# W-03-WI-102/NU# W20-95
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) - A
White oak (Quercus alba) - C
_____
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -A
Meadowsweet (Spiraea latifolia) -C
Pepperbush (Clethra alnifolia) -C
Arrowwood (Viburnum sp.) -C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -A
Sensitive fern (Onoclea sensibilis) -A
Cinnamon fern (Osmunda cinnamomea) -C
New York fern (Thelypteris noveboracensis) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 -15 | C | Sandy loam | 10 YR 2/1 | -- |
| 15+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: 73C - Charlton-Chatfield complex, 3-15%, very rocky

River/Stream Data: S-03-WI-037 _____ Perennial _____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 1 – 3" | | Bank Height: 1 - 3' | | Channel Width 3 - 5' | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,800 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 403 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/13/08 _____

Wetland ID: ENSR# W-03-WI-104/NU# w20-96
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Arrowwood (Viburnum sp.) -C
Highbush blueberry (Vaccinium corymbosum) -C
Pepperbush (Clethra alnifolia) - C
Meadowsweet (Spiraea latifolia) -C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Reed canary grass (Phalaris arundinacea) - A
_____
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | C | Sandy loam | 10 YR 2/1 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,900 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 323 _____
Observers: T. Ramborger/J.Kennedy _____
Date: 03/13/08 _____

Wetland ID: ENSR#W-03-WI-103/NU# W20-97
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) -A
_____
_____
_____

Shrubs: Ironwood (Carpinus caroliniana) -A
_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -D
Cinnamon fern (Osmunda cinnamomea) -C
Sensitive fern (Onoclea sensibilis) -C
Skunk cabbage (Symplocarpus foetidus) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | A | Fine sandy loam | 10 YR 2/1 | -- |
| 10 – 20+ | Bw | Loamy sand | 10 YR 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-WI-037 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 1 – 3" | | Bank Height: 1 - 3' | | Channel Width 3 - 5' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,800 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 - 110 & 200 - 209_____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/18/08 _____

Wetland ID: ENSR# W-03-WI-093/NU# W20-98
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) - A
_____

Shrubs: Maleberry (Lyonia ligustrina) -C
Speckled alder (Alnus rugosa) - C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C
Goldenrod (Solidago sp.) -C
Sedges (Carex spp.) -C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat (Off ROW) | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 -12 | C | Sandy loam | 10 YR 2/1 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 4,200 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 308 _____
Observers: T.Ramborger/J.Kennedy_____
Date: 03/18/08 _____

Wetland ID: ENSR# W-03-WI-094/NU# W20-99
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PEM_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Highbush blueberry (Vaccinium corymbosum) -A

Saplings/Lianas:

Herbs/Forbes:

Phragmites (Phragmites australis) - D
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12 – 20+ | C | Sandy loam | 10 Y 6/0 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,900 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 - 125 & 300 – 348 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/18/08_____

Wetland ID: ENSR# W-03-WI-095/NU# W20-100
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) -A

Shrubs: Highbush blueberry (Vaccinium corymbosum) -A
Pepperbush (Clethra alnifolia) -A

Saplings/Lianas:

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -A
Tussock sedge (Carex stricta) - A
Sensitive fern (Onoclea sensibilis) -C
Cinnamon fern (Osmunda cinnamomea) -C
Cattails (Typha latifolia) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also— | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | N 2.5/0 | -- |
| 8 – 20+ | C | Sand | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-WI-033 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 1 - 2" | | Bank Height: 1 – 3' | | | Channel Width 5 – 6' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,400 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 314 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/18/08_____

Wetland ID: ENSR# W-03-WI-096/NU# w20-101
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -C
Yellow birch (Betula alleghaniensis) -C

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -A
Tussock sedge (Carex stricta) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-WI-034 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 2 – 4" | | Bank Height: 1 – 3' | | Channel Width 3 – 5' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,300 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 310 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/20/08 _____

Wetland ID: ENSR# W-03-WI-097/NU# W20-102
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: PUBHh_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
Yellow birch (Betula alleghaniensis) -C

Shrubs: Pepperbush (Clethra alnifolia) -A
Spicebush (Lindera benzoin) -A

Saplings/Lianas:

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -A
Skunk cabbage (Symplocarpus foetidus) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Also –<br>Inundated soils<br>Ponded | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden and Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,300 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 112 & 200 – 228 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/20/08 _____

Wetland ID: ENSR# W-03-WI-098/NU# W20-103
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____

Shrubs: Pepperbush (Clethra alnifolia) -A
Multiflora rose (Rosa multiflora) -A
Spicebush (Lindera benzoin) -A

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Skunk cabbage (Symplocarpus foetidus) -A
Sensitive fern (Onoclea sensibilis) -C
False hellebore (Veratrum viride) -C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony

River/Stream Data: S-03-WI-038 ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 6 – 12" | | Bank Height: 1- 3' | | | Channel Width 8 – 15' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Pudding Hill Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 351 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/21/08_____

Wetland ID: ENSR# W-03-WI-099/NU# W20-104
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acrer rubrum) -A
_____
_____
_____

Shrubs: Japanese barberry (Berberis thunbergii) -A
Multiflora rose (Rosa multiflora) -A
Pepperbush (Clethra alnifolia) -C
Spicebush (Lindera benzoin) -C

Saplings/Lianas:

_____N/A_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Sphagnum moss (Sphagnum sp.) -A
Christmas fern (Polystichum acrostichoides) - C
Poison ivy (Toxicodendron radicans) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: Also— Inundated soils | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 3/2 | -- |
| 6 – 20+ | Bw | Sandy loam | 2.5 Y 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony

River/Stream Data: S-03-WI-039 _____ Perennial _____**X**_____ Intermittent

| Depth @ Center: 1 – 2" | | Bank Height: 1 – 3' | | | Channel Width 5 – 10' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Pudding Hill Road & Cemetery Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 402 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/21/08 _____

Wetland ID: ENSR# W-03-WI-105/NU# w20-105
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____

Shrubs: _____N/A_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Goldenrod (Solidago sp.) – C
Skunk cabbage (Symplocarpus foetidus) –C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 5 Y 5/1 | Many fine 10 YR 5/6 redoximorphic features |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Cemetery Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 358 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/21/08 _____

Wetland ID: ENSR# W-03-WI-106/NU# w20-106
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) –A ____
White pine (Pinus strobus) –A ___
_____

Shrubs: Japanese barberry (Berberis thunbergii) -A
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) - A
Sensitive fern (Onoclea sensibilis) -A
Skunk cabbage (Symplocarpus foetidus) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: Also – Inundated soils | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 2/1 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony and 101 - Occum fsl

River/Stream Data: S-03-WI-040 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 1 – 3' | | Bank Height: 1 – 3' | | | Channel Width 5 – 10' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders **X** | Artificial |

River/Stream Data: Cedar Swamp Brook (S-03-WI-041) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 1 – 4' | | Bank Height: 1 – 3' | | | Channel Width 20 – 25' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders **X** | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Cemetery Road & Bigelow Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 305 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/24/08 _____

Wetland ID: ENSR# W-03-WI-107/NU# w20-107
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) – A
American elm (Ulmus americana) - C
_____

Shrubs: _____N/A_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Soft rush (Juncus effuses) -C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Inundated soils | | Silt Deposition | | Water-Stained Leaves | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | A | Sandy loam | 10 YR 3/2 | -- |
| 10 – 20+ | Bw | Sandy loam | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 101 - Occum fsl

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Bigelow Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 119 & 200 – 226 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/24/08 _____

Wetland ID: ENSR# W-03-WI-108/NU# w20-108
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) – A
_____
_____

Shrubs: Speckled alder (Alnus rugosa) -A
Spicebush (Lindera benzoin) - C
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Skunk cabbage (Symplocarpus foetidus) -A
Sedges (Carex spp.) -C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Inundated soils | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 102 - Pootatuck fsl

River/Stream Data: Cedar Swamp Brook (S-03-WI-042) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 1 – 4' | | Bank Height: 1 – 3' | | Channel Width 10 - 15' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel | Cobbles | Boulders **X** | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Bigelow Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 316 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/24/08 _____

Wetland ID: ENSR# W-03-WI-109/NU# w20-109
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: Speckled alder (Alnus rugosa) -A
Highbush blueberry (Vaccinium corymbosum) -C

Saplings/Lianas: _____N/A_____

Herbs/Forbes:
Tussock sedge (Carex stricta) -A
Reed canary grass (Phalaris arundinacea) -C
Sensitive fern (Onoclea sensibilis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 108 - Saco silt loam

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,350 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 112; 200 – 210; & 300 - 307___
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-110/NU# w20-110
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - C

Shrubs: Meadowsweet (Spiraea latifolia) -A

Saplings/Lianas: _____N/A_____

Herbs/Forbes:
Sensitive fern (Onoclea sensibilis) -A
Steeplebush (Spiraea tomentosa) -C
Cattails (Typha latifolia) -C
False hellebore (Veratrum viride) -C
Skunk cabbage (Symplocarpus foetidus) – C
Woolgrass (Scirpus cyperinus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area flagged as 108 - Saco silt loam

River/Stream Data: Little River (S-03-WI-043) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 1 – 5' | | Bank Height: 1 – 5' | | | Channel Width 20 – 25' | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical -- **X** | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel -- **X** | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,000 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 405 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-111/NU# w20-111
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Shrubs: Witch-hazel (Hamamelis virginiana) -C
Maleberry (Lyonia ligustrina) -C
Meadowsweet (Spiraea latifolia) -C

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Steeplebush (Spiraea tomentosa) -C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 23A - Sudbury sl, 0-5% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,900 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 409 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-112/NU# w20-112
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Shrubs: Maleberry (Lyonia ligustrina) -A
Meadowsweet (Spiraea latifolia) -C
_____

Herbs/Forbes:

Woolgrass (Scirpus cyperinus) -C
_____
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | C | Sandy loam | 10 YR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 23A - Sudbury sl, 0-5%

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,000 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: _____
Observers: A. Miliman_____
Date: 11/08/08_____

Wetland ID: NU# W20-112A
Town: Hampton, CT_____
Weather: rainy, 60°_____
Time: 10:00 a.m_____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Pinus strobus (D)
Quercus alba (A)
Quercus rubra (A)

Shrubs: Ilex verticillata (C)

Saplings/Lianas:

Herbs/Forbes:
Carex sp. (C)
Lycopodium obscurum (C)

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
|---|---|---|---|
| Area ponded | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: 5" | Depth to Soil Saturation: |

Representative Soil Characteristics: ____X_____ Mineral** _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-20" | A | Fsl (mucky) | 10YR 2/1 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: **high organic matter content throughout soil profile.

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 404 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-113/NU# w20-113
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: White pine (Pinus strobus) - A
White oak (Quercus alba) - A

Shrubs: Maleberry (Lyonia ligustrina) -C

Saplings/Lianas: N/A

Herbs/Forbes: N/A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 23A - Sudbury sl, 0-5% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,000 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 307 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-114/NU# W20-114
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: White pine (Pinus strobus) - A
Red maple (Acer rubrum) -C

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -C
Sedges (Carex spp.) -C
Sensitive fern (Onoclea sensibilis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | A | Sandy loam | 10 YR 2/1 | -- |
| 10 – 20+ | Bw | Sandy loam | 10 YR 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,200 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 107 & 200 – 209 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-115/NU# W20-115
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
White pine (Pinus strobus) -A

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -C
Sedges (Carex spp.) -C
Sensitive fern (Onoclea sensibilis) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,300 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 163; 200 – 219; 300 – 326; & 400 - 402
Observers: T. Ramborger/J. Kennedy _____
Date: 03/25/08 _____

Wetland ID: ENSR# W-03-WI-116/NU# W20-116
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Highbush blueberry (Vaccinium corymbosum) -A
Pepperbush (Clethra alnifolia) -C
Spicebush (Lindera benzoin) -C

Saplings/Lianas: N/A

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) -A
Sedges (Carex spp.) - C
Sensitive fern (Onoclea sensibilis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area contains a Vernal pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 9 | A | Sandy loam | 10 YR 2/1 | -- |
| 9 – 20+ | Bw | Sandy loam | 2.5 Y 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-WI-044 ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 3 – 12” | | Bank Height: 1 – 3’ | | | Channel Width 5 – 20’ | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~3,600 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 114 & 200 – 208 _____
Observers: T. Ramborger/J.Kennedy _____
Date: 03/26/08 _____

Wetland ID: ENSR# W-03-WI-117/NU# w20-117
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO _____ Other NWI Classes: PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
White pine (Pinus strobus) -A

Shrubs: Maleberry (Lyonia ligustrina) -A
Highbush blueberry (Vaccinium corymbosum) -A
Meadowsweet (Spiraea latifolia) -A

Saplings/Lianas:

Herbs/Forbes:
Tussock sedge (Carex stricta) -D
Reed canary grass (Phalaris arundinacea) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12 – 20+ | C | Sandy loam | 10 YR 6/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 2 - Ridgebury fsl; 3 - Ridgebury, Leicester, & Whitman soils, extremely stony; & 47C - Woodbridge fsl, 2-15% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Drain Street | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 114 & 200 – 208 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/26/08 _____

Wetland ID: ENSR# W-03-WI-118/NU# W20-118
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Saplings/Lianas:

_____N/A_____

Shrubs: Pepperbush (Clethra alnifolia) -C
Willow (Salix sp.) -C

Herbs/Forbes:

Reed canary grass (Phalaris arundinacea) -A
Tussock sedge (Carex stricta) - A
Steeplebush (Spiraea tomentosa) -C
Purple loosestrife (Lythrum salicaria) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12 – 20+ | C | Sandy loam | 2.5 Y 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 47C - Woodbridge fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Drain Street | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 402 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/27/08 _____

Wetland ID: ENSR# W-03-WI-122/NU# W20-119
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Saplings/Lianas:

_____N/A_____

Shrubs: Gray birch (Betula populifolia) - A

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -C
Soft rush (Juncus effuses) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 4 | A | Sandy loam | 10 YR 2/1 | -- |
| 4 – 20+ | Bw | Sandy loam | 2.5 Y 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,700 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 108 & 200 – 225_____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/27/08 _____

Wetland ID: ENSR# W-03-WI-119/NU# W20-120
Town: Brooklyn/Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Hemlock (Tsuga canadensis) - A
Yellow birch (Betula alleghaniensis) -C

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -A
Cattails (Typha latifolia) -C
Phragmites (Phragmites australis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area contains a Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24 | Oa | Muck | N 2.5/0 | -- |
| 24+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~3,750 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 404 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/27/08 _____

Wetland ID: ENSR# W-03-WI-120/NU# w20-121
Town: Hampton, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: POW_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum )- A

Shrubs: Gray birch (Betula populifolia) -C
Pepperbush (Clethra alnifolia) -C

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

_____N/A_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Ponded | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: Ponded _____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3,675 feet east | Y | N | Y | N | Y | N | |

**Town of Brooklyn, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT- Interstate Reliability Project ____
Flag Series: 100 – 115; 200 - 224; & 300 – 327 __
Observers: T. Ramborger/ J. Kennedy _____
Date: 03/27/08 _____

Wetland ID: ENSR# W-03-WI-121/NU# W20-122
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS/PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Hemlock (Tsuga canadensis) -A
Red maple (Acer rubrum) -A
_____

Shrubs: _____
_____
_____

Saplings/Lianas:
_____
_____
_____
_____
_____

Herbs/Forbes:
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C
Reed canary grass (Phalaris arundinacea) -C
Sensitive fern (Onoclea sensibilis) -C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | Oa | Muck | N 2.5/0 | -- |
| 6 – 20+ | C | Sandy loam | 2.5 Y 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,300 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 310 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/27/08 _____

Wetland ID: ENSR# W-03-WI-123/NU# W20-123
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Hemlock (Tsuga canadensis) -A
Red maple (Acer rubrum) -A
White pine (Pinus strobus) -C
_____
_____

Shrubs: _____N/A_____
_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) - C
Sedges (Carex spp.) - C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Fine sandy loam | 10 YR 2/1 | -- |
| 12 – 20+ | Bw | Sandy loam | 10 YR 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 250 feet east | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 312 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/27/08 _____

Wetland ID: ENSR# W-03-WI-124/NU# W20-124
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____

Shrubs: _____N/A_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -A
Sedges (Carex spp.) -C
Goldenrod (Solidago sp.) -C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 2/1 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 18 - Catden & Freetown soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Stetson Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 142 & 200 – 214 _____
Observers: T. Ramborger/J. Kennedy_____
Date: 03/31/08 _____

Wetland ID: ENSR# W-03-WI-125/NU# w20-125
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
Hemlock (Tsuga canadensis) - C
White pine (Pinus strobus) -C

Shrubs: _____
_____
_____

Saplings/Lianas:

_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) - A
Sphagnum moss (Sphagnum sp.) -A
Sensitive fern (Onoclea sensibilis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12 – 20+ | C | Fine sandy loam | 10 YR 5/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Stetson Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 304 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/31/08 _____

Wetland ID: ENSR# W-03-WI-126/NU# W20-126
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) –D
Yellow birch (Betula alleghaniensis) - C

Shrubs: Highbush blueberry (Vaccinium corymbosum) - C
Ironwood (Carpinus caroliniana) -C

Saplings/Lianas:

_____N/A_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) - A
Skunk cabbage (Symplocarpus foetidus) -C
Tussock sedge (Carex stricta) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Pockets of standing water | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12 – 20+ | C | Sandy loam | 2.5 Y 4/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 75C - Hollis-Chatfield-Rock outcrop complex, 3-15% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,100 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 315 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/31/08 _____

Wetland ID: ENSR# W-03-WI-127/NU# W20-127
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) -C

Shrubs: Maleberry (Lyonia ligustrina) -A

Saplings/Lianas: N/A

Herbs/Forbes:
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area contains a Vernal pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | Oa | Muck | N 2.5/0 | -- |
| 10+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3, 700 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 306 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/31/08 _____

Wetland ID: ENSR# W-03-WI-128/NU# W20-128
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) -C

Shrubs: Maleberry (Lyonia ligustrina) -A

Saplings/Lianas:

Herbs/Forbes:
Sphagnum moss (Sphagnum sp.) -A
Cinnamon fern (Osmunda cinnamomea) -C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | Oa | Muck | N 2.5/0 | -- |
| 10+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 3, 700 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 400 - 414 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/31/08 _____

Wetland ID: ENSR# W-03-WI-129/NU# w20-129
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -C

Shrubs: Maleberry (Lyonia ligustrina) - A
Mt. Laurel (Kalmia latifolia) -C

Saplings/Lianas:

N/A

Herbs/Forbes:

Sedges (Carex spp.) -A
Sphagnum moss (Sphagnum sp.) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 3/2 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3 – 15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 4,000 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 123 & 200 – 215 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/31/08 _____

Wetland ID: ENSR# W-03-WI-130/NU# W20-130
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Spicebush (Lindera benzoin) -A

Saplings/Lianas:

N/A

Herbs/Forbes:

Cattails (Typha latifolia) -C
Sphagnum moss (Sphagnum sp.) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area identified as Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 4 | A | Sandy loam | 10 YR 3/2 | -- |
| 4 – 20+ | Bw | Sandy loam | 10 YR 6/1 | Many fine & medium 10 YR 4/6 redoximorphic features |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,350 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 307 _____
Observers: T. Ramborger/J. Kennedy _____
Date: 03/31/08_____

Wetland ID: ENSR# W-03-WI-131/NU# w20-131
Town: _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PEM_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -C

Shrubs: Honeysuckle (Lonicera sp.) - C
Japanese barberry (Berberis thunbergii) -C

Saplings/Lianas:

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Ponded | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Sandy loam | 10 YR 3/2 | -- |
| 12 – 20+ | Bw | Sandy loam | 10 YR 4/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 51B - Sutton fsl, 2-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 315 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/21/08 _____

Wetland ID: ENSR# W-03-WI-132/NU# w20-132
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Spicebush (Lindera benzoin) -A
Highbush blueberry (Vaccinium coymbosum) - C

Saplings/Lianas:

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) -A
Sensitive fern (Onoclea sensibilis) -A
Marsh marigold (Caltha palustris) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
|---|---|---|---|---|---|---|---|
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
|---|---|---|---|
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Mucky silt loam | 10 YR 2/1 | -- |
| 12 – 20+ | Bw | Fine sandy loam | 10 YR 6/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 52C - Sutton fsl, 2-15% slopes, extremely stony and 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 300 feet east | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 300 – 308 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/21/08 _____

Wetland ID: ENSR# W-03-WI-133/NU# w20-133
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM _____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -C

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Skunk cabbage (Symplocarpus foetidus) -A
Soft rush (Juncus effuses) -C
Cattails (Typha latifolia) -C
Jewelweed (Impatiens capensis) -C
Sedges (Carex spp.) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 24 | Oa | Muck | N 2.5/0 | -- |
| 24+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 52C - Sutton fsl, 2-15% slopes, extremely stony and 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Windham Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 408 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/21/08 _____

Wetland ID: ENSR# W-03-WI-134/NU# W20-134
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____

Shrubs: _____N/A_____

Saplings/Lianas:

_____N/A_____

Herbs/Forbes:

Skunk cabbage (Symplocarpus foetidus) - A
Sphagnum moss (Sphagnum sp.) -A
Sensitive fern (Onoclea sensibilis) -C
Cinnamon fern (Osmunda cinnamomea) -C
Soft rush (Juncus effuses) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | A | Sandy loam | 10 YR 3/2 | -- |
| 10 – 20+ | Bw | Loamy sand | 10 YR 5/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 52C - Sutton fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Windham Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 304 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/21/08 _____

Wetland ID: ENSR# W-03-WI-135/NU# w20-135
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) –A

Shrubs: Spicebush (Lindera benzoin) –A
Japanese barberry (Berberis thunbergii) -C
Honeysuckle (Lonicera sp.) -C

Saplings/Lianas: N/A

Herbs/Forbes: N/A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| Also – | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| Ponded | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 5 Y 6/2 | Many medium 10 YR 5/6 redoximorphic features |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 52C - Sutton fsl, 2 – 15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 500 feet west | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 412 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/21/08 _____

Wetland ID: ENS# W-03-WI-136/NU# w20-136
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) –A

Shrubs: Spicebush (Lindera benzoin) -A
Japanese barberry (Berberis thunbergii) -C

Saplings/Lianas: N/A

Herbs/Forbes: Skunk cabbage (Symplocarpus foetidus) -A
Sensitive fern (Onoclea sensibilis) -C
Marsh marigold (Caltha palustris) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Sandy loam | 10 YR 2/1 | -- |
| 12 – 20+ | Bw | Sand | 10 YR 5/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Route 6 | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 123 & 200 – 215 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/21/08 _____

Wetland ID: ENSR# W-03-WI-137/NU# W20-137
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) - A
_____
_____
_____
_____

Shrubs: Spicebush (Lindera benzoin) -A
Multiflora rose (Rosa multiflora) - A
Honeysuckle (Lonicera sp.) -C
Japanese barberry (Berberis thunbergii) -C
Meadowsweet (Spiraea latifolia) –C
Speckled alder (Alnus rugosa) -C

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) -A
Cattails (Typha latifolia) -C
Cinnamon fern (Osmunda cinnamomea) -C
Reed canary grass (Phalaris arunidinacea) -C
Sedges (Carex spp.) –C
Sensitive fern (Onoclea sensibilis) –C
Steeplebush (Spiraea tomentosa) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Elevated root systems | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |
| Area contains a Vernal Pool/Amphibian breeding habitat | | | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | Bw | Sandy loam | 10 YR 6/1 | -- |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: Stony Brook (S-03-WI-050) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 6 – 12” | | Bank Height: 1 – 3’ | | Channel Width 15 – 25’ | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel **X** | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Route 6 | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 119 & 200 – 211 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08_____

Wetland ID: ENSR# W-03-WI-138/NU# w20-138
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____
_____
_____

Shrubs: Honeysuckle (Lonicera sp.) -A
Multiflora rose (Rosa multiflora) -A
_____
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Cattails (Typha latifolia) -A
Sphagnum moss (Sphagnum sp.) -A
Skunk cabbage (Symplocarpus foetidus) - C
Woolgrass (Scirpis cyperinus) -C
Steeplebush (Spiraea latifolia) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 500 feet south | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 115 & 200 – 217 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08 _____

Wetland ID: ENSR# W-03-WI-139/NU# W20-139
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Hemlock (Tsuga canadensis) -C
Red maple (Acer rubrum) -C
_____

Shrubs: Japanese barberry (Berberis thunbergii) -A
Spicebush (Lindera benzoin) - A
_____

Saplings/Lianas:
_____
_____
_____
_____
_____

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) -C
Skunk cabbage (Symplocarpus foetidus) -C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area contains a Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 61B - Canton & Charlton soils, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 100 – 109 & 200 – 207 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08 _____

Wetland ID: ENSR# W-03-WI-140/NU# W20-140
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____

Shrubs: Japanese barberry (Berberis thunbergii) - A
Spicebush (Lindera benzoin) -A
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) -A
Marsh marigold (Caltha palustris) -A
Jewelweed (Impatiens capensis) -A
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Area contains a Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 14 | Oa | Muck | N 2.5/0 | -- |
| 14+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,800 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 404 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08 _____

Wetland ID: ENSR# W-03-WI-141/NU# W20-141
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A

Shrubs: Honeysuckle (Lonicera sp.) -C
Spicebush (Lindera benzoin) -C

Saplings/Lianas:

N/A

Herbs/Forbes:

Canada mayflower (Maianthemum canadense) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | A | Sandy loam | 10 YR 3/2 | -- |
| 6 – 20+ | Bw | Sandy loam | 10 YR 6/2 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,800 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 308 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08_____

Wetland ID: ENSR# W-03-WI-142/NU# w20-142
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acrubrum) - A
White pine (Pinus strobus) -C
Hemlock (Tsuga canadensis) - C

Shrubs: Honeysuckle (Lonicera sp.) -A
Multiflora rose (Rosa multiflora) --C

Saplings/Lianas:

N/A

Herbs/Forbes:

Skunk cabbage (Symplocarpus foetidus) -A
Jewelweed (Impatiens capensis) -C
Sensitive fern (Onoclea sensibilis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Inundated soils | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns -- **X** | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 14 | A | Sandy loam | 10 YR 3/2 | -- |
| 14+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 59C - Gloucester gsl, 3-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Laurel Hill Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 312 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08 _____

Wetland ID: ENSR# W-03-WI-143/NU# W20-143
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____

Shrubs: Honeysuckle (Lonicera sp.) -A
Willow (Salix sp.) -A
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cattails (Typha latifolia) –A
Tussock sedge (Carex stricta) -A
Steeplebush (Spiraea tomentosa) -C
Phragmites (Phragmites australis) - C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area contains a Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 15 -Scarboro muck

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Laurel Hill Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 305 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08 _____

Wetland ID: ENSR# W-03-WI-144/NU# w20-144
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: POW_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____
_____
_____

Shrubs: Honeysuckle (Lonicera sp.) -A
_____
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sensitive fern (Onoclea sensibilis) -C
_____
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | C | Coarse sandy loam | 10 YR 3/2 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 15 - Scarboro muck

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 300 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 308 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/22/08 _____

Wetland ID: ENSR# W-03-WI-145/NU# w20-145
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) - A
Shagbark hickory (Carya ovata) - C

Shrubs: Japanese barberry (Berberis thunbergii) -A

Saplings/Lianas: N/A

Herbs/Forbes: Skunk cabbage (Symplocarpus foetidus) - A
False hellebore (Veratrum viride) -A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | C | Sandy loam | 10 YR 3/2 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 108 - Saco silt loam

River/Stream Data: S-03-WI-052 _____ Perennial ____**X**_____ Intermittent

| Depth @ Center: 3 – 4" | | Bank Height: 1 – 3' | | Channel Width 5 – 6' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual -- **X** |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,200 feet southwest | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 304 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/24/08 _____

Wetland ID: ENSR# W-03-WI-146/NU# w20-146
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) -A

Shrubs: Japanese barberry (Berberis thunbergii) -A
Ironwood (Carpinus caroliniana) -C

Saplings/Lianas: N/A

Herbs/Forbes: Skunk cabbage (Symplocarpus foetidus) -D
Jewelweed (Impatiens capensis) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Also – Inundated soils | | Silt Deposition | | Water-Stained Leaves -- **X** | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 16 | C | Very fine sandy loam/silt loam | 10 YR 2/1 | -- |
| 16+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 307 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/24/08 _____

Wetland ID: ENSR# W-03-WI-147/NU# W20-147
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: POW_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
_____
_____

Shrubs: Spicebush (Lindera benzoin) -A
Japanese barberry (Berberis thunbergii) -A
_____

Saplings/Lianas:

_____N/A_____
_____

Herbs/Forbes:

Tussock sedge (Scirpis cyperinus) -C
Skunk cabbage (Symplocarpus foetidus) -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | Surface Scouring | Drift Lines | Drainage Patterns |
| Ponded | | | |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth 9in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 16 | C | Silt loam/silty clay loam | 10 YR 2/1 | -- |
| 16+ | C | Sandy loam | 10 YR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony and 17-Timakwa & Natchaug soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 900 feet northeast | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT-Interstate Reliability Project _____
Flag Series: 400 – 413 & 400A – 404A _____
Observers: T. Ramborger/J. Berg _____
Date: 04/24/08 _____

Wetland ID: ENSR# W-03-WI-148/NU# W20-148
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PUB/PEM/PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Speckled alder (Alnus rugosa) -A
Silky dogwood (Cornus amomum) -A
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____

Herbs/Forbes:

Reed canary grass (Phalaris arundinacea) -A
Cattails (Typha latifolia) -C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded -- **X** | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | Surface Scouring | Drift Lines | Drainage Patterns |
| Inundated soils | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | Oa | Muck | N 2.5/0 | -- |
| 12 – 20+ | C | Sandy loam | 5 Y 5/2 | Many fine & medium 10 YR 5/4 redoximorphic features |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 700 feet northeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 300 – 322 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/24/08 _____

Wetland ID: ENSR# W-03-WI-149/NU# W20-149
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) –A
_____
_____
_____
_____

Shrubs: Japanese barberry (Berberis thunbergii) -A
Honeysuckle (Lonicera sp.) -A
Spicebush (Lindera benzoin) -A
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) -D
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20+ | Oa | Muck | N 2.5/0 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Wolf Den Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 100 – 105 & 200 – 218 _____
Observers: T. Ramborger/J. Berg _____
Date: 04/24/08 _____

Wetland ID: ENSR# W-03-WI-150/NU# W20-150
Town: Brooklyn, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS _____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -A
Yellow birch (Betula alleghaniensis) -C
Shagbark hickory (Carya ovata) -S
_____

Shrubs: Honeysuckle (Lonicera sp.) -A
_____
_____
_____

Saplings/Lianas:
_____
_____
_____

Herbs/Forbes:
Skunk cabbage (Symplocarpus foetidus) -A
False hellebore (Verutrum viride) - C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns -- **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | A | Sandy loam | 10 YR 3/2 | -- |
| 8 – 20+ | B | Sandy loam | 10 YR 6/1 | Many fine & medium 10 YR 5/6 redoximorphic features |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 108 - Saco silt loam

River/Stream Data: Tanner Brook* ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

* Tanner Brook not flagged because of no clear channel in majority of corridor.

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Adjacent to Costello Road | Y | N | Y | N | Y | N | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 344
Observers: P. London, T. Braham
Date: 5/1/08

Wetland ID: W-10 – WI-050 / w20-151
Town: Brooklyn
Weather: Sunny, 60's
Time: 1:10 PM

Dominant NWI Class: Pss
Other NWI Classes: POW, Pem, PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - C
- Carpinus caroliniana (FAC) - S

Shrubs:
- Spiraea tomentosa (FACW) - S
- Vaccinium corymbosum (FACW) - A
- Lyonia ligustrina (FACW) - C
- Lindera benzoin (FACW-) -C
- Alnus rugosa (FACW+) - C
- Rosa multiflora (FACV) - C

Saplings/Lianas:
- Acer rubrum (FAC) - S
- Salix sp. (OBL) - C

Herbs/Forbes:
- Carex stricita (OBL) - D
- Symplocarpus foetidus (OBL) - A
- Typha latifolia (OBL) - A
- Onoclea sensibilis (FACW) - S
- Osmunda cinnamomea (FACW) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☒ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☒ **Stone dam** | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☒ 0-4' | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic - both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 10" | A | Mucky fsl | 10yR 2/1 | Saturated |
| 10 – 20'+ | Bg | Fine sandy loam | 2.5y 4/1 | 2/5y 5/2 4 10yR 4/4 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: In general, very poorly drained in maintained ROW, poorly drained outside

River/Stream Data: None-discharges to S-10-WI-025 ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 169 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400 - 403
Observers: P. London, T. Braham
Date: 5/1/08

Wetland ID: W-10 – WI-049 / w20-152
Town: Brooklyn
Weather: Sunny, 60's
Time: 9:30 AM

Dominant NWI Class: Pss - Isolated
Other NWI Classes: Pss, PFO, Pow

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- None

Shrubs:
- Spiraea latifolia (FACW+) - C
- Viburnum recognitum (FACW-) - C

Saplings/Lianas:
- Betula alleghaniensis (FAC) - S

Herbs/Forbes:
- Onoclea sensibilis (FACW) - A
- Juncus effusus (FACW+) - C
- Panicum clandestum

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☒ 1" | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8 " | A | Fine sandy loam | 2.5y 3/1 | Oxidized rhizospheres, saturated |
| 8 – 15"+ | Bg | Sand loam | 2.5y 5/2 | 10yR 3/6 & 2.5y 5/4 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 169 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-113,200-251,300-326,350-396
Observers: P. London, T. Braham
Date: 4/29/08

Wetland ID: W-10 – WI-048 / w20-153
Town: Brooklyn
Weather: Raining 50's
Time: 2:10 PM

Dominant NWI Class: Pem
Other NWI Classes: Pss, PFO, Pow

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - A
- Carpinus amomum (FACW) - C

Shrubs:
- Alnus rugosa (FACW+) - A
- Vaccinium corymbosum (FACW) - C
- Spiraea latifolia (FACW+) - C

Saplings/Lianas:
- Acer rubrum (FAC) - C

Herbs/Forbes:
- Carex stricta (OBL) - D
- Symplocarpus foetidus (OBL) - A
- Typha latifolia (OBL) - C
- Phragmites australis (FACW) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 0" – 1.5' | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20 " + | Oa | Sapric | 10yR 2/1 | Water table |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained, areas of ponding

River/Stream Data: White Brook (S-10-WI-022) ☒ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 0 – 1' | | Bank Height: 1 – 2' | | Channel Width 4 – 8' | | Notes: Mostly formed by Tussock sedge | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - X | Gradual |
| Substrate %: | Peat-Muck 80% | Silt-Mud | Sand 15% | | Gravel 5% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 169 | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-103, 200-211
Observers: P. London, T. Braham
Date: 4/29/08

Wetland ID: W-10 – WI-047 / w20-154
Town: Brooklyn
Weather: Raining 50's
Time: 12:30 PM

Dominant NWI Class: Pss, PFO
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Betula alleghaniennsis (FAC) - C
- Acer rubrum (FAC) - A

Shrubs:
- Alnus rugosa (FACW+) - C
- Vaccinium corymbosum (FACW) - C
- Rhododendron viscosum (OBL) - C
- Lyonia ligustrina (FACW) - S
- Lindera benzoin (FACW-) - C

Saplings/Lianas:
- None

Herbs/Forbes:
- Phragmites australis (FACW+) - S
- Typha latifolia (OBL) - S
- Carex stricta (OBL) - D
- Symplocarpus foetidus (OBL) - C
- Osmunda cinnamomea (FACW) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 30 " | Oa | Sapric | 10yR 2/1 | Water table at surface |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations:

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width ' | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 169 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-411
Observers: P. London, T. Braham
Date: 4/29/08

Wetland ID: W-10 – WI-046 / w20-155
Town: Brooklyn
Weather: Raining 50's
Time: 10:20 AM

Dominant NWI Class: Pem - Isolated
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: Sambucus canadensis (FACW-) - S
Cornus amomum (FACW) - S
Rosa multiflora (FACV) - C

Saplings/Lianas: None

Herbs/Forbes: Carex stricta (OBL) - A
Onoclea sensibilis (FACW) - C
Juncus effusus (FACW+) - A
Eupatorium perfoliatum (FACW+) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | | Water Marks ☐ | | |
| | Surface Scouring ☒ | | Drift Lines ☐ | | Drainage Patterns ☐ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 12 " | A | Very fine sandy loam | 2.5y 3/1 | Oxidized rhizopheres |
| 12 – 20+" | Bg | Fine sandy loam | 2.5y 5/2 | 2.5y 5/4 4 10yR 3/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained soils

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width ' | Notes: | | |
|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 169 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-403
Observers: P. London, T. Braham
Date: 4/28/08

Wetland ID: W-10 – WI-045 / w20-156
Town: Brooklyn
Weather: Raining 40's
Time: 11:45 AM

Dominant NWI Class: Pss
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Ulmus rugosa (FAC) - C

Shrubs: Cornus amomum (FACW) - S
Rosa multiflora (FACV) - C

Saplings/Lianas: Salix sp. (OBL) - C
Betula allrghaniensis (FAC) - S

Herbs/Forbes: Symplocarpus foetidus (OBL) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☒ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 16 "+ | C | Fine sandy loam | 10yR 2/1 | Saturated surface, stony |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |

Other Soil Observations: Poorly drained soils - disturbed

River/Stream Data: unnamed stream (S-10-WI-021) ☒ Perennial ☒ Intermittent Man-made dam divides flow regimes

| Depth @ Center: 6" – 2' | | Bank Height: 2 – 4'' | | Channel Width 3'0 - 75' | Notes: Waterfall | | |
|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☒ | Bank Configuration: | Undercut | Vertical - **X** | Gradual - **X** |
| Substrate %: | Peat-Muck | Silt-Mud 40% | Sand 30% | Gravel 10% | Cobbles 20% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Church St. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-120,200-226,300-312,400-415
Observers: P. London, T. Braham
Date: 4/25/08

Wetland ID: W-10 – WI-044 / w20-157
Town: Brooklyn
Weather: Raining 40's
Time: 9:00 PM

Dominant NWI Class: Pem
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - D

Shrubs: Vaccinium corymbosum (FACW) - C

Saplings/Lianas:

Herbs/Forbes:
Carex stricta (OBL) - D
Symplocarpus foetidus (OBL) - C
Typha latifolia (OBL) - C
Junus effusus (FACW+) - S
Lythrum salicaria (FACW+) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☐ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☒ | | Depth of Inundation: ☒ 0 – 6" | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 30 "+ | Oa | Sapric | 10yR 2/1 | Water table at surface |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations:

River/Stream Data: Creamery Brook (S-10-WI-019) ☒ Perennial ☐ Intermittent
White Brook (S-10-WI-020)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6" – 1.5' | | Bank Height: 2' | | Channel Width 5 – 6' | | Notes: Tussock sedge forms banks | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - **X** | Gradual |
| Substrate %: | Peat-Muck 40% | Silt-Mud 10% | Sand 50% | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Church St. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400 - 434
Observers: P. London, T. Braham
Date: 4/28/08

Wetland ID: W-10 – WI-042 / w20-158
Town: Brooklyn
Weather: Sunny 80's
Time: 1:35 PM

Dominant NWI Class: Pss - Isolated
Other NWI Classes: POW/PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - S

Shrubs:
Cornus amomum (FACW) - C
Cephalanthus occidentalis (OBL)
Alnus rugosa (FACW+)
Spiraea tomentosa (FACW)
Viburnum recognitum (FACW-)

Saplings/Lianas:

Herbs/Forbes:
Juncus effusus (FACW+)
Lythrum salicaria (FACW+)
Scirpus cyperinus (OBL)
Eupatorium perfoliatum (FACW+)
Onoclea sensibilis (FACW)

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☒ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☒ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 1' – 2' | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 6" | A | Fine sandy loam | 2.5y 3/2 | Water table |
| 6 – 12" | AB | Fine sandy loam | 2.5y 1/3 | 2.5y 4/2 – C,M,D |
| 12 – 18" | Cg | Sandy loam | 2.5y 5/2 | 2.5y 4/3 – C,M,D |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: very poorly drained due to ponded conditions

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 0.5-1.5' | | Bank Height: 2-8' | | Channel Width 4-10' | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Church St. | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 317
Observers: P. London, T. Braham
Date: 4/24/08

Wetland ID: W-10 – WI-043 / w20-159
Town: Brooklyn
Weather: Sunny 80's
Time: 2:30 PM

Dominant NWI Class: PFO
Other NWI Classes: PSS

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - D
- Pinus strobus (FACV) - S
- Ulmus rubra (FAC) - S

Shrubs:
- Vaccinium corymbosum (FACW) - A
- Lyonia ligustrina (FACW) - C

Saplings/Lianas:

Herbs/Forbes:
- Symplocarpus foetidus (OBL) - A
- Carex stricta (OBL) - C
- Leucothoe racemosa (FACW) - S
- Berberis thunbergii (FACV) - S
- Alnus rugosa (FACW+) -S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☒ | | Depth of Inundation: ☐ ' | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 –8" | A | Fine sandy loam | 2.5y 3/1 | Oxidized rhizopheres, sat. |
| 8 – 16"+ | Bg | Fine sandy loam | 2.5y 4/2 | 2.5y 5/4 – C,M,D, Water table |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Church St. | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-140, 200-226 , 300-316 & w20-160A 300-306
Observers: P. London, T. Braham
Date: 4/23/08

Wetland ID: W-10 – WI-041/ w20-160 / w20-160A
Town: Brooklyn
Weather: Sunny 80's
Time: 11:15 AM

Dominant NWI Class: Pss
Other NWI Classes: PFO (mostly of ROW)

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - S
- Carpinus caroliniana (FAC) - S

Shrubs:
- Alnus rugosa (FACW+) - C
- Spiraea latifolia (FACW+) - C
- Rosa multiflora (FACW) - C
- Cornus amomum (FACW) - C

Saplings/Lianas:
- Polygonum perfoliatum (FAC) - C
- Acer rubrum (FAC) - C

Herbs/Forbes:
- Symplocarpus foetidus (OBL) - C
- Boehmeria cylindrica (FACW+)

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☒ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 30" | C | Fine sandy loam | 2.5y 3/2 | Sat. surface, water table is 14" below ground surface |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained (some very poorly drained soils along stream)

River/Stream Data: Tributary of Quinebaug River (S-10-WI-018) ☒ Perennial ☐ Intermittent

| Depth @ Center: 0.5-1.5' | | Bank Height: 2-8' | | Channel Width 4-10' | Notes: | | |
|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☒ | Fast ☐ | Bank Configuration: | Undercut | Vertical - mostly | Gradual |
| Substrate %: | Peat-Muck 10% | Silt-Mud 10% | Sand 50% | Gravel 20% | Cobbles 10% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Church St. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

**Town of Pomfret, CT**

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 – 304
Observers: P. London, T. Braham
Date: 4/23/08

Wetland ID: W-10 – WI-039 / w20-161
Town: Pomfret
Weather: Sunny 80's
Time: 10:00 AM

Dominant NWI Class: PFO (off ROW)
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC)
Quercus palustris (FAC) - C

Shrubs: Cornus amomum (FACW)

Saplings/Lianas: Acer rubrum (FAC)

Herbs/Forbes:

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☒ | Water Marks ☐ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☐ |
| | Buttressed Trees ☐ | Depth of Inundation: ☒ 6" pockets | Depth to Soil Saturation: ☒ surface |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | $A_1$ | Very fine sandy loam | 2.5y 3/2 | Water table |
| 8 – 16" | $A_2$ | Very fine sandy loam | 10 yR 2/1 | |
| 16 – 20" | Bg | Fine sandy loam | 2.5y 4/2 | 2.5y 5/4 – C,M,D, organic staining |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained soils

River/Stream Data: ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 101 | Y ☐ | N ☒ | Y ☐ | N ☒ | Y ☐ | N ☒ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-149,200-237,300-306,600-607
Observers: P. London, T. Braham
Date: 4/23/08

Wetland ID: W-10 – WI-039 / w20-162
Town: Pomfret
Weather: Sunny 80's
Time: 9:15 AM

Dominant NWI Class: Pss
Other NWI Classes: Pem, PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - C
- Quercus palustris (FAC) - C

Shrubs:
- Cornus amomum (FACW) – A
- Rhamnus frangula (FAC) - S
- Cephalanthus occidentalis (OBL) - A
- Viburnum recognitum (FACW+) - C
- Vaccinium corymbosum (FACW) - C

Saplings/Lianas:

Herbs/Forbes:
- Carex stricta (OBL) - A
- Junus effusus (FACW+) - S
- Onoclea sensibilis (FACW) – S
- Symplocarpus foetidus (OBL) – C
- Lythrum salicaria (FACW+) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☒ | | Water-Stained Leaves ☒ | Water Marks ☐ | | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | Drainage Patterns ☒ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 0"-1' | Depth to Soil Saturation: ☒ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic Both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 14" | C | Very fine sandy loam | 2.5y 3/2 | Water table |
| 14 – 25'+ | A | Fine sandy loam | 10 yR 2/1 | 10 yR 3/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly and poorly drained, allwial soils

River/Stream Data: W-039 borders Quinebaug river outside ROW ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 101 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-137,200-210,300-313,400-407
Observers: P. London, R. Lloyd
Date: 4/21/08

Wetland ID: W-10 – WI-038 / w20-163 & 164
Town: Killingly/Pomfret
Weather: Overcast 50's
Time: 12:00 PM

Dominant NWI Class: Pss
Other NWI Classes: Pem, PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - C

Shrubs:
- Alnus rugosa (FACW+) - C
- Clethia alnifolia (FAC+) - C
- Cornus amomum (FACW) – C
- Vaccinium corymbosum (FACW) - C
- Viburnum recognitum (FACW+) - C

Saplings/Lianas:
- Salix discolor (FACW) - C
- Acer rubrum (FAC) - C

Herbs/Forbes:
- Carex stricta (OBL) - A
- Lythrum salicaria (FACW+) - S
- Symplocarpus foetidus (OBL) – C
- Onoclea sensibilis (FACW) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☒ | | Water-Stained Leaves ☒ | Water Marks ☐ | | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | Drainage Patterns ☒ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 0"-1' in areas | Depth to Soil Saturation: ☒ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic Both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 6" | Oe | hydric | -- | Water table |
| 6 – 16" + | A | Fine sandy loam | 11yR 2/1 | 2.5y 4/4 – C,M,D |
| 16 – 20" | Cg | Very fine sandy loam | 2.5y 4/1 | 2.5y 5/4 0 C, M, D |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained, alluvial soils

River/Stream Data: Quinebaug River (S-10-WI-016) ☒ Perennial ☐ Intermittent

| Depth @ Center: 2-3' | | Bank Height: 4-6' | | Channel Width 240' | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical **-X** | Gradual |
| Substrate %: Est. | Peat-Muck 10% | Silt-Mud 30% | Sand 40% | | Gravel 10% | Cobbles 10% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 101 | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

**Town of Killingly, CT**

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 332
Observers: P. London, R. Lloyd
Date: 4/21/08

Wetland ID: W-10 – WI-037 / w20-165
Town: Killingly
Weather: Overcast 50's
Time: 11:35 AM

Dominant NWI Class: Pss
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC)

Shrubs: Cornus amomum (FACW) – D
Lonicera sp. (FAC-) - C
Spiraea latifolia (FACW+) - S
Clethia alnifolia (FAC+) - S
Alnus rugosa (FACW+) - S

Saplings/Lianas: None

Herbs/Forbes: Carex stricta (OBL) - D
Symplocarpus foetidus (OBL) – C
Osmunda cinnamomea (FACW) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☐ | Water Marks ☐ |
| | Surface Scouring ☒ | Drift Lines ☐ | Drainage Patterns ☒ |
| | Buttressed Trees ☐ | Depth of Inundation: ☒ 2" pockets | Depth to Soil Saturation: ☐ |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 6" | A | Fine sandy loam | 10yR 2/1 | Water table |
| 6 – 10" + | Bg | Fine sandy loam | 2.5y 4/1 | 2.5y 4/4 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations:

River/Stream Data: Diffuse flow to S-10-WI-014 ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Rd. | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 303
Observers: P. London, R. Lloyd
Date: 4/21/08

Wetland ID: W-10 – WI-036 / w20-166
Town: Killingly
Weather: Overcast 50's
Time: 9:45 AM

Dominant NWI Class: Pss
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: Cornus amomum (FAW) - D
Sambucus canadensis (FACW) - S
Lonicera sp. (FAC-) - C

Saplings/Lianas: None

Herbs/Forbes: Phalaris arundinacea (FACW+) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☐ | Water Marks ☐ |
| | Surface Scouring ☒ | Drift Lines ☐ | Drainage Patterns ☒ |
| | Buttressed Trees ☐ | Depth of Inundation: ☐ | Depth to Soil Saturation: ☒ surface |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | A | Fine sandy loam | 2y 3/1 | Saturated |
| 8 – 18" | Bg | Sandy loam | 2.5y 4/2 | 2.5y 4/4 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: Int. trib to Quinebaug River ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2" | | Bank Height: 1 -2' | | Channel Width 3' | | Notes: Connects via culvert under access rd to W-037 | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual - X |
| Substrate %: | Peat-Muck | Silt-Mud | Sand 50% | | Gravel 30% | Cobbles 20% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Rd. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 304
Observers: P. London, R. Lloyd
Date: 4/21/08

Wetland ID: W-10 – WI-035 / w20-167
Town: Killingly
Weather: Overcast 50's
Time: 8:45 AM

Dominant NWI Class: PFO (off ROW)
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - C
Quercus alba (FAW) – C
Quercus rubra (FAW) - C

Shrubs: Myrica pensylvanica (FAC) - S
Vaccinium corybosum (FACW) - A

Saplings/Lianas: Acer rubrum (FAC) - C
Pinus strobus (FAW) - C

Herbs/Forbes: Carex stricta (OBL) - C
Maianthemum canadense (FAC-) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☒ | Water Marks ☐ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☒ |
| | Buttressed Trees ☐ | Depth of Inundation: ☒ 2" pockets | Depth to Soil Saturation: ☒ surface |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | A | Fine sandy loam | 10yR 2/1 | Saturated |
| 8 – 18" | Bg | Fine sandy loam | 10 yR 4/2 | 10 yR 3/6 – C.M.D. organic staining, water table |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Rd. | Y ☐ | N ☒ | Y ☐ | N ☒ | Y ☐ | N ☒ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 326
Observers: P. London, R. Lloyd
Date: 4/18/08

Wetland ID: W-10 – WI-034 / w20-168
Town: Killingly
Weather: Sunny, 70's
Time: 4:45 PM

Dominant NWI Class: Pss
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - C
Fraxinus pennsylvanica (FACW) - S
Quercus rubra (FAW) - S

Shrubs: Clethra alnifolia (FAC+) - A
Vaccinium corybosum (FACW) - A
Rhododendron viscosum OBL) - C

Saplings/Lianas:

Herbs/Forbes: Carex stricta (OBL) - C
Onoclea sensibilis (FACW) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | Water Marks ☐ | | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | Drainage Patterns ☐ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 2" pockets | Depth to Soil Saturation: ☐ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 –10" | A | Fine sandy loam | 10yR 2/1 | Oxidized rhizospheres, water table |
| 10 – 20" | Bg | Fine sandy loam | 2.5y 4/2 | 2.5y 5/4 – C.M.D, organic staining |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2" | | Bank Height: 2-3" | | Channel Width 3" | | Notes: man-made | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - X | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Rd. | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400 - 453
Observers: P. London, R. Lloyd
Date: 4/18/08

Wetland ID: W-10 – WI-033 / w20-169
Town: Killingly
Weather: Sunny, 70's
Time: 3:30 PM

Dominant NWI Class: Pss - Isolated
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - S

Shrubs: Cornus amomun (FACW) - S
Vaccinium corybosum (FACW) - A
Lyonia ligustrina (FACW) - A
Spiraea latifolia (FACW+) - C
Rhamnus frangula (FAC) - S

Saplings/Lianas:

Herbs/Forbes: Agrostis sp. (FAC/FAW) - A
Onoclea sensibilis (FACW) - C
Carex stricta (OBL) - C
Symplocarpus foetidus (OBL) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | Water Marks ☐ | | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | Drainage Patterns ☒ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | Depth to Soil Saturation: ☒ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 6" | A | Fine sandy loam | 10yR 2/1 | Saturated |
| 6 – 18" | Cg | Sandy loam | 2.5y 4/2 | 2.5y 5/2 – C.M.F |
| | | | | |
| | | | | Note: water table at 6" |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: Channel that discharges to S-10-WI-013 under Loyle road. ☐ Perennial ☒ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2" | | Bank Height: 2-3" | | Channel Width 3" | | Notes: man-made | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - X | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud 20% | Sand 70% | | Gravel 10% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Loyle Rd. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 - 315
Observers: P. London, R. Lloyd
Date: 4/18/08

Wetland ID: W-10 – WI-032 / W20-170
Town: Killingly
Weather: Sunny, 70's
Time: 12:15 PM

Dominant NWI Class: Pem
Other NWI Classes: Pss

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - C

Shrubs: Spiraea tomentosa (FACW) - S; Lyonia ligustrina (FACW_ - C; Rosa multiflora (FACU) - C; Vaccinium corymbosum (FACW)

Saplings/Lianas: Betula populifolia (FAC) - S; Salix sp. (FACW/OBL) - S; Acer rubrum (FAC) - S

Herbs/Forbes: Typha latifolia (OBL) - C; Symplocarpus foetidus (OBL) - C; Carex stricta (OBL) - D; Onoclea sensibilis (FACW) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ Access road w/debris | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | Water Marks ☐ | | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | Drainage Patterns ☒ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | Depth to Soil Saturation: ☒ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 10" | A | Fine sandy loam | 10yR 2/1 | water table |
| 10 – 20" | Bg | Fine sandy loam | 2.5y 4/2 | 2.5y 5/6> C,M,D |
| | | | | 2.5y 6/2> |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained, hillside seep

River/Stream Data: ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-118, 200-220, 300-322
Observers: P. London, R. Lloyd
Date: 4/18/08

Wetland ID: W-10 – WI-031 / W20-171
Town: Killingly
Weather: Sunny, 70's
Time: 9:45 AM

Dominant NWI Class: Pss
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - C; Carpinus caroliniana (FAC) - C

Shrubs: Vaccinium corymbosum (FACW) - A; Spiraea tomentosa (FACW+) - S; Alnus rugosa (FACW+) - C; Cornus stolonifera (FACW+) - A; Rhamnus fragula (FAC) - C

Saplings/Lianas: Pinus strobus (FACU) - S

Herbs/Forbes: Symplocarpus foetidus (OBL) - S; Onoclea sensibilis (FACW) - S; Carex stricta (OBL) - A; Typha latifolia (OBL) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ Access road w/debris | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | Water Marks ☐ | | | |
| | Surface Scouring ☒ | | Drift Lines ☐ | Drainage Patterns ☒ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | Depth to Soil Saturation: ☒ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 6" | A | Very fine sandy loam | 2.5Y 3/1 | Water table |
| 6 – 18"+ | Cg | Sandy loam | 2.5y 5/2 | 2.5y 5/4 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained, hillside drainage

River/Stream Data: ☐ Perennial ☒ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2 – 4" | | Bank Height: 1' | | Channel Width 2 – 4' | | Notes: Description if for S-006, the main channel | | |
| Flow Rate: | Slow ☐ | Moderate ☒ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual - X |
| Substrate %: | Peat-Muck | Silt-Mud 5% | Sand 70% | | Gravel 25% | Cobbles 25% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Road | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

**Town of Putnam, CT**

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-114, 300-305, 310-334
Observers: PL / RL
Date: 4/15/08

Wetland ID: W10WI030 / W20-172
Town: Putnam
Weather: Sunny 50s
Time: 3:20 pm

Dominant NWI Class: PSS
Other NWI Classes: PEM / PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) – c
- Betula alleghaniensis (FAC) – s

Shrubs:
- Cornus amomum (FACW) – a
- Viburnum recognitum (FACW) – s
- Sambucus Canadensis (FACW) – s

Saplings/Lianas:
- Salix sp. (FACW / OBL) – a

Herbs/Forbes:
- Carex stricta (OBL) – c
- Typha latifolia (OBL) – c
- Phalaris arundsvacea (FACW+) – a
- Symplocarpus foetidus (OBL) – s

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☒ floodplain | | Water-Stained Leaves ☒ | | Water Marks ☒ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☐ | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-4" | C | Fine sandy loam | 10yr 3/2 | Water table, alluvial |
| 4-12" | A | Fine sandy loam | 10yr 2/1 | Oxidized rhizospheres |
| 12-18"+ | $B_g$ | Fine sandy loam | 10yr 4/2 | 10yr 3/6 – c, m, d – organic staining |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained and very poorly drained alluvial soils

River/Stream Data: Quinebaug River ☒ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2-3' | | Bank Height: 2-8' | | Channel Width: 100-200' | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☒ | Fast ☐ | | Bank Configuration: | Undercut | Vertical ☒ | Gradual |
| Substrate %: | Peat-Muck: 10% | Silt-Mud: 30% | Sand: 40% | | Gravel 10% | Cobbles 10% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-306
Observers: PL / RL
Date: 4/15/08

Wetland ID: W10WI029 / W20-173
Town: Putnam
Weather: Sunny 50s
Time: 1:15pm

Dominant NWI Class: PSS
Other NWI Classes: none

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: Rosa multiflora (FACU) – c
Lonicera sp. (FACU) – c
Cornus amomum (FACW) – c

Saplings/Lianas: Acer ruburm (FAC) – c

Herbs/Forbes: Solidago rugosa (FAC) – c

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 12"+ | C | Fine sandy loam | 2.5y 3/2 | Saturated |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained – disturbed soils

River/Stream Data: tributary to Quinebaug River ☐ Perennial ☒ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 4" | | Bank Height: 1" | | Channel Width: 4' | | Notes: Off ROW | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut ☐ | Vertical ☐ | Gradual ☒ |
| Substrate %: | Peat-Muck | Silt-Mud 20% | Sand 70% | | Gravel 10% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Access off River Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | Stream was off ROW |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-309
Observers: PL / RL
Date: 4/15/08

Wetland ID: W10-WI028 / W20-174
Town: Putnam
Weather: Sunny 50s
Time: 12:30 pm

Dominant NWI Class: PSS – Isolated
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: none

Shrubs: Cornus amomum (FACW) - c
Rhamnus frangula (FAC) – c
Viburnam recognitum (FACW) – d

Saplings/Lianas: Acer rubrum (FAC) – s
Salix spp. (FACW/OBL) – c

Herbs/Forbes: Carex stricta (OBL) – c
Juncus effusus (FACW+) – s

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☒ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: 1-2' | | Depth to Soil Saturation: surface | | |

Representative Soil Characteristics: ☐ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 4" | A | Mucky fine sandy loam | 10yr2/1 | |
| 4"-25" | C | Fine sandy loam | 10yr 2/1 | 10yr 3/6 – c, m, d |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: very poorly drained due to ponded conditions / rock refusal at 25" / disturbed soils

River/Stream Data: none ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Access off River Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-318
Observers: P. London, R. Lloyd
Date: 4/15/08

Wetland ID: W10-WI027 / W20-175
Town: Putnam
Weather: Sunny, 50's
Time: 11"45am

Dominant NWI Class: POW - Isolated
Other NWI Classes: PSS

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum* (FAC) - S

Shrubs: *Vaccinium corymbosum* (FACW) - C
*Rhamnus frangula* (FAC) – A

Saplings/Lianas:
*Quercus palustris* (FAC) - S
*Betula allegheniensis* (FAC) - S

Herbs/Forbes:
*Carex stricta* (OBL) - C
*Scirpus cyperinus* (FACW+) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☒ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: 1-2' | | Depth to Soil Saturation: Surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-12 "+ | C | Sandy Loam | 10YR 2/1 | _ |

Other Soil Observations: Very Poorly Drained due to ponded conditions

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Access off River Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-415
Observers: P. London, R. Lloyd
Date: 4/15/08

Wetland ID: W10WI026 / W20-176
Town: Putnam
Weather: Sunny, 50's
Time: 10:50 am

Dominant NWI Class: PSS - Isolated
Other NWI Classes: POW

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: *Rhamnus frangula* (FAC) - A
*Spirea tomentosa* (FACW) - C
*Vaccinium corymbosum* (FACW) - C
*Lyonia lygustrina* (FACW) - S

Saplings/Lianas:
*Acer rubrum* (FAC) - C

Herbs/Forbes:
None

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☒ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☐ | | Water Marks ☒ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: 1-2' | | Depth to Soil Saturation: Surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-16" | C1 | Sandy Loam | 10YR 2/1 | _ |
| 16-25" | C2 | Sandy Loam | 10YR 3/2 | _ |

Other Soil Observations: Very Poorly Drained due to ponded conditions

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Access off River Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

**Town of Killingly, CT**

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-423
Observers: P. London, R. Lloyd
Date: 4/14/08

Wetland ID: W10WI025 / W20-177
Town: Killingly
Weather: Sunny, 40's
Time: 3:10 pm

Dominant NWI Class: PSS - Isolated

Other NWI Classes: -

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Quercus palustris* (FAC) - C

Shrubs: *Viburnum recognitum* (FACW-) - A
*Alnus rugosa* (FACW+) - C
*Cornus amomum* (FACW) - A

Saplings/Lianas:
*Salix* spp. (FACW / OBL) - A
*Betula populifolia* (FAC) - C

Herbs/Forbes:
*Carex stricta* (OBL) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☐ | | Water Marks ☐ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: 4" | | Depth to Soil Saturation: Surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-20" | AC | V. Fine Sandy Loam | 10YR 2/1 | Oxidized Rhizospheres |
| 20-25" | C | V. Fine Sandy Loam | 10YR 4/2 | 10YR 3/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly & Very Poorly Drained, Floodplain Soils

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rt 395 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-114, 200-210, 400-404
Observers: P. London, R. Lloyd
Date: 4/14/08

Wetland ID: W10WI024 / W20-178
Town: Killingly
Weather: Sunny, 40's
Time: 2 pm

Dominant NWI Class: PSS
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum* (FAC) - A; *Quercus palustris* (FAC) - C

Shrubs: *Cornus amomum* (FACW) - A; *Sambucus Canadensis* (FACW-) - S; *Vaccinium corymbosum* (FACW) - C; *Spirea latifolia (FACW+)* - C; *Viburnum recognitum* (FACW-) - A

Saplings/Lianas: *Salix* spp. (OBL) - A

Herbs/Forbes: *Scirpus georgianus* (OBL) - A; *Juncus offusus* (FACW+) - S; *Phalaris arundinacea* (FACW+) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: 6" | | Depth to Soil Saturation: Surface | | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic Both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-6" | C | V. Fine Sandy Loam | 2.5Y 3/2 | Some mixed in coarse sand |
| 6-24" | AC | V. Fine Sandy Loam | 10YR 2/1 | 2.5Y5/1 – C,M,D |
| 24-30" | Cg | V. Fine Sandy Loam | 10YR 4/2 | 10YR 3/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly & Very Poorly Drained, Floodplain Soils.

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rt 395 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-403
Observers: P. London, R. Lloyd
Date: 4/14/08

Wetland ID: W10WI023 / W20-179
Town: Killingly
Weather: Sunny, 40's
Time: 12:30 pm

Dominant NWI Class: PSS - Isolated
Other NWI Classes: -

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: *Spirea latifolia* (FACW+) - D; *Rhamnus frangola* (FAC) - A

Saplings/Lianas: None

Herbs/Forbes: *Juncus offusus* (FACW+) - C; *Carex* spp. (OBL) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☒ Surface Layer | | Water-Stained Leaves ☐ | | Water Marks ☒ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: 1" | | Depth to Soil Saturation: Surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-6" | C1 | Sandy Loam | 2.5Y 4/4 | Water Table |
| 6-20" | C2 | Fine Sandy Loam | 2.5Y 2/1 | 10YR 3/6 & 2.5Y 6/2 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly Drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Park Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

**Town of Putnam, CT**

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-341
Observers: P.London, R. Lloyd
Date: 4/14/08

Wetland ID: W10WI022 / W20-180
Town: Putnam
Weather: Sunny, 40's
Time: 11:45 am

Dominant NWI Class: PFO

Other NWI Classes: PSS

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
*Acer rubrum* (FAC) - A

Shrubs:
*Viburnum recognitum* (FACW-) - C
*Cornus amomum* (FACW) - C
*Vaccinium corymbosum* (FACW) - A
*Rhamnus frangola* (FAC) - C
*Spirea tomentosa* (FACW) - S

Saplings/Lianas:
*Acer rubrum* (FAC) - C
*Salix* spp. (FACW / OBL) - S

Herbs/Forbes:
*Carex stricta* (OBL) - A
*Onoclea sensibilis* (FACW) - C
*Symplocarpus foetidus* (OBL) - S
*Osmunda cinnamomea* (FACW) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☒ PFO | Water Marks ☐ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☒ |
| | Buttressed Trees ☐ | Depth of Inundation: | Depth to Soil Saturation: Surface |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-8" | A1 | Fine Sandy Loam | 10YR 2/1 | Oxidized Rhizospheres, water table |
| 8-18" | A2 | Fine Sandy Loam | 10YR 2/1 | 2.5Y 4/2 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly Drained

River/Stream Data: Possibly Excavated Ditch ☐ Perennial ☒ Intermittent Channel contained within ROW

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2" | | Bank Height: 1' | | Channel Width 2' | | Notes: | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical ☒ | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud 20% | Sand 70% | | Gravel 10% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Park Road | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-417
Observers: P.London, R. Lloyd
Date: 4/14/08

Wetland ID: W10WI021 / W20-181
Town: Putnam
Weather: Sunny, 40's
Time: 10:45 am

Dominant NWI Class: PSS - Isolated
Other NWI Classes: -

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: *Lonicera* spp. (FAC-) - A
*Viburnum recognitum* (FACW+) - A

Saplings/Lianas: *Salix* spp. (FACW / OBL - C

Herbs/Forbes: *Polytrichum* spp. - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | | Water Marks ☐ | | |
| | Surface Scouring ☒ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: | | Depth to Soil Saturation: Surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-12" | A | Fine Sandy Loam | 2.5Y 3/2 | Oxidized Rhizospheres |
| 12-20" | Bg | Sandy Loam | 2.5Y 4/2 | 10YR 3/6 – C,M,D |
| | | | | 10YR 4/6 – C,M,D |
| | | | | |
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| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: Seep ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Park Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-310
Observers: P. London, R. Lloyd
Date: 4/11/08

Wetland ID: W10WI020 / W20-182
Town: Putnam
Weather: Overcast / raining, Low 50's
Time: 5:45 pm

Dominant NWI Class: PSS
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum* (FAC) - A
*Pinus strobus* (FACU) - C

Shrubs: *Alnus rugosa* (FACW+) - C
*Vaccinium corymbosum* (FACW) - C
*Viburnum recognitum* (FACW-) - C

Saplings/Lianas: None

Herbs/Forbes: *Agrostis spp.* (FAC / FACU) - D
*Symplocarpus foetidus* (OBL) - S
*Carex stricta* (OBL) - C
*Onoclea sensibilis* (FACW) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: | | Depth to Soil Saturation: Surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-8" | A | Fine Sandy Loam | 10YR 2/1 | Water Table |
| 8-20" | A/B | Fine Sandy Loam | 10YR 2/1 / 10YR 3/2 | 10YR 3/6 – C,M,D |
| | | | | |
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Other Soil Observations: Poorly drained, but soft surface – need mats

River/Stream Data: Seep ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Killingly Ave Rt 12 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-341
Observers: P. London, R. Lloyd
Date: 4/11/08

Wetland ID: W10WI019 / W20-183
Town: Putnam
Weather: Overcast / raining, low 50's
Time: 5:20 pm

Dominant NWI Class: PSS, PFO - Equal
Other NWI Classes: -

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum* (FAC) - A
*Pinus strobus* (FACU) - C
*Quercus rubra* (FACU) - S

Shrubs: *Vaccinium corymbosum* (FACW) - A
*Alnus rugosa* (FACW+) - A
*Rosa multiflora* (FACU) - C

Saplings/Lianas:
None

Herbs/Forbes:
*Symplocarpus foetidus* (OBL) - C
*Onoclea sensibilis* (FACW) - S
*Solidago rugosa* (FAC) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: Seep – fed wetland | | Silt Deposition ☐ | | Water-Stained Leaves ☒ PFO | | Water Marks ☐ | |
| | | Surface Scouring ☒ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: | | Depth to Soil Saturation: Surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-8" | A | Fine Sandy Loam | 10YR 2/1 | Oxidized Rhizospheres |
| 8-18" | Bg | Fine Sandy Loam | 2.5Y 5/2 | 10YR 3/6 C,M,D |
| | | | | |
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| | | | | |

Other Soil Observations: Mostly poorly drained, standing water / rutting in access road

River/Stream Data: Seep, mostly diffuse flood ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Killingly Ave. Rt 12 | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-110,200-221,300-304,400-407
Observers: P. London, R. Lloyd
Date: 4/11/08

Wetland ID: W-10 – WI-018 / W20-184
Town: Putnam
Weather: Overcast, raining, low 50's
Time: 3:30 PM

Dominant NWI Class: Pss
Other NWI Classes: Pem, PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - C
Pinus strobus (FACV) - S

Shrubs: Alnus rugosa (FACW+) - C
Vaccinium corymbosum (FACW) - A
Rhamnus fragula (FAC) - C

Saplings/Lianas:
None

Herbs/Forbes:
Carex stricta (OBL) - D
Onoclea sensibilis (FACW) - C
Symplocarpus foetidus (OBL) - C
Junus effusus (FACW+) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ Access road w/debris | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☐ | | Water Marks ☐ | |
| | | Surface Scouring ☒- Along streams | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☐ none | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 12" | A | Fine sandy loam | 10yR 2/1 | Oxidized rhizospheres, saturated |
| 12 – 20" + | Bg | Fine sandy loam | 10yR 4/2 | 10yR 3/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Mostly poorly drained, but soft surface – needs mats

River/Stream Data: Culver Brook (S-W-WI-006, 007, 008 & 009) ☒ Perennial ☐ Intermittent

| Depth @ Center: 6" | | Bank Height: 2 -4' | | Channel Width 12' | | Notes: Description if for S-006, the main channel | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☒ | Fast ☐ | | Bank Configuration: | Undercut | Vertical - X | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand 50% | | Gravel 25% | Cobbles 25% | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Killingly Ave., Rte. 12 | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400-407
Observers: P. London, R. Lloyd
Date: 4/10/08

Wetland ID: W-10 – WI-014 / W20-185
Town: Putnam
Weather: Overcast, raining, high 50's
Time: 3:30 PM

Dominant NWI Class: Pss- Isolated
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - D

Shrubs: Alnus rugosa (FACW+) - C; Rhamnus fragula (FAC) - C; Vaccinium corymbosum (FACW) - A; Spiraea tomentosa (FACW) - S; Viburnum recognitum (FACW-) - A

Saplings/Lianas: None

Herbs/Forbes: Agrostis sp. (FAC/FACV) - C; Pennstaedtia punctilobolm (NI) - C; Polystrictum sp.- C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ Access road w/debris | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☐ | Water Marks ☐ | | | |
| | Surface Scouring ☒ | | Drift Lines ☐ | Drainage Patterns ☐ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | Depth to Soil Saturation: ☒ surface | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | A | Fine sandy loam | 10yR 2/1 | Oxidized rhizospheres saturated |
| 8 – 18" + | Bg | Fine sandy loam | 2.5y 1/2 | 10YR 4/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained – disturbed area

River/Stream Data: Int. tributary of Culver Brook ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Heritage Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☐ | N ☒ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300 – 305
Observers: P. London, R. Lloyd
Date: 4/10/08

Wetland ID: W-10 – WI-016 / W20-186
Town: Putnam
Weather: overcast/raining, high 50's
Time: 3:30 PM

Dominant NWI Class: PFO
Other NWI Classes: Pss

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - D

Shrubs: Alnus rugosa (FACW+) – A; Viburnum recognitum (FACW) – A; Cornus amomum (FACW) - C; Lonicera sp. (FAC-) – C; Vaccinium corymbosum (FACW) – C

Saplings/Lianas: Pinus srobus (FAW) – C

Herbs/Forbes: None

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | Water Marks ☐ | | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | Drainage Patterns ☒ | | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 0" | Depth to Soil Saturation: ☒ 10" | | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 10" | A | Fine sandy loam | 10yR 2/1 | |
| 10 – 18" | Bg | Fine sandy loam | 10yR 4/2 | 10 yR 3/6 – C.M.D. saturated |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Heritage Rd. | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☐ | N ☒ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100 – 117, 200 - 218
Observers: P. London, R. Lloyd
Date: 4/10/08

Wetland ID: W-10 – WI-015 / W20-187
Town: Putnam
Weather: overcast/raining, high 50's
Time: 1:50 PM

Dominant NWI Class: PFO
Other NWI Classes: Pss

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - D
- Querus rubra (FAW) - C

Shrubs:
- Lonicera sp (FAC-) – C
- Viburnum recognitum (FAW-) - C
- Alnus rugosa (FACW+) - C
- Rhamnus frangula (FAC) - C

Saplings/Lianas:

Herbs/Forbes:
- Junus effusus (FACW+) - C
- Solidago rugosa (FAC) – C
- Onoclea sensibilis (FACW) - C
- Carex stricta (OBL) – A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☒ | | Water-Stained Leaves ☐ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 2" | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 10" | A | Mucky fsL | 10yR 2/1 | Oxidized rhizospheres, saturated |
| 10 – 14" | BW | Sandy loam | 10yR 5/3 | 10 yR 3/6 – C.M.D. water table |
| 14 – 20" + | Bg | Sandy loam | 10yR 5/2 | 10 yR 3/6, C.M.D. |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: poorly drained, somewhat poorly drained - hydric

River/Stream Data: excavated channel in ROW ☐ Perennial ☒ Intermittent

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Depth @ Center: 2" | | Bank Height: 1 – 2' | | Channel Width 5' | | Notes: defined channel confined to maintained ROW | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | Bank Configuration: | Undercut | Vertical | Gradual - X |
| Substrate %: | Peat-Muck 10% | Silt-Mud 30% | Sand 60% | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Tourtellotte Rd. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-122, 200-224, 300-305, 400-406
Observers: P. London, R. Lloyd
Date: 4/10/08

Wetland ID: W-10 – WI-014 / W20-188
Town: Putnam
Weather: Overcast, raining, high 50's
Time: 10:15 AM

Dominant NWI Class: PFO
Other NWI Classes: Pss

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - D
- Carpinus caroliniana (FAU) -D
- Prunus serotina (FACU) - C
- Betula populifolia (FAC) - S

Shrubs:
- Rhamnus fragula (FAC) - C
- Viburnum recognitum (FACW-) - A
- Lyonia ligustrina (FACW) - C
- Vaccinium corymbosum (FACW) - A
- Alnus rugosa (FACW+) - C

Saplings/Lianas:
- None

Herbs/Forbes:
- Carex stricta (OBL) - D
- Onoclea sensibilis (FACW) - S
- Typha latifolia (OBL) - C
- Solidago rugosa (FAC) - C
- Symplocarpus foetidus (OBL) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ Access road w/debris | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☐ | | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 -30" + | Oa | Sapric | 10yR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained

River/Stream Data: Int. tributary of Culver Brook ☐ Perennial ☒ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6" | | Bank Height: 1' | | Channel Width 3 – 6' | | Notes: | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | Bank Configuration: | Undercut | Vertical | Gradual **-X** |
| Substrate %: | Peat-Muck 20% | Silt-Mud | Sand 75% | Gravel 5% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 21 - | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-305 To
Observers: P. London, R. Lloyd
Date: 4/10/08

Wetland ID: W-10 – WI-013 / W20-189
wn: Putnam
Weather: Overcast, high 50's
Time: 9:30 AM

Dominant NWI Class: Pem (mowed field)
Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - A
Shrubs: Viburnum recognitum (FACW-) - A

Saplings/Lianas: Herbs/Fo
rbes:

None
Phalaris arundinacea (FACW+) - D
Other grasses - A
Onoclea sensibilis (FACW) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: Perm. ☐ Flooded | | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | Tidal: | | Subtidal | Irregularly Exposed |
| Saturated | ☒ Intermittentl y Flooded ☒ | | Artificially Flooded ☐ Access road w/debris | Reg. | | Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ Water-Stained Leaves ☐ | | | | Water Marks ☐ | |
| | | Surface Scouring ☐ Drift | | Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☒ 1" | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth Horizon | | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | A | Fine sandy loam | 10yR 2/1 | Saturated, oxidized rhizopheres |
| 8 - 14" | Bw | Fine sandy loam | 2.5y 5/3 | 10yR 3/6 – C,M,D |
| 14 – 20"+ | Cg | Loamy fine sand | 2.5y 5/2 | 10yR 4/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Somewhat poorly drained - hydric

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fas t ☐ | Bank Configuration: | | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | Gravel | | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Rte. 21 | Y ☒ | N ☐ | N ☐ | Y ☒ | N ☒ | ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-324
Observers: P. London, R. Lloyd
Date: 4/9/08

Wetland ID: W-10 – WI-012 / W20-190
Town: Putnam
Weather: Overcast, raining, high 40's
Time: 3:20 PM

Dominant NWI Class: Pss
Other NWI Classes: Pem/PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC)
Shrubs: Vaccinium corymbosum (FACW)
Lyonia ligustrina (FACW)
Rhododendron viscosum (OBL)
Cornus amomum (FACW)

Saplings/Lianas:
Herbs/Forbes:

Carex stricita (OBL) - D
Typha latifolia (OBL)
Onoclea sensibilis (FACW)
Symplocarpus foetidus (OBL)

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☒ 2-6" | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic - both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | A | Mucky fsl | 10yr 2/1 | |
| 8 – 18" + | Cg | Loamy sand | 10yR 4/2 | 2.5y 5/4 – C,M,D |
| | | | | |
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| | | | | |

Other Soil Observations: Very poorly drained

River/Stream Data: Trib. of unnamed pond (S-10-WI-005) ☒ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: Channel was flooded, could not be observed. See W-011/S-004 descriptions | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | Bank Configuration: | | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | Gravel | | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Aldrich Road | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-123, 200-218, 300-324
Observers: P. London, R. Lloyd
Date: 4/9/08

Wetland ID: W-10 – WI-011 / W20-191
Town: Putnam
Weather: Overcast, raining, high 40's
Time: 11:30 AM

Dominant NWI Class: PFO
Other NWI Classes: Pss, Pem

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - D

Shrubs: Rhododendron viscosum (OBL) - A; Lyonia ligustrina (FACW) - C; Vaccinium corymbosum (FACW) - A; Rhamnus frangula (FAC) - A; Alnus rugosa (FACW+) - C

Saplings/Lianas:

Herbs/Forbes: Typha latifolia (OBL) - C; Carex stricita (OBL) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☐ | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic - both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 30"+ | Oa | Sapric | 10yr 2/1 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations:

River/Stream Data: Trib. of unnamed pond (S-10-WI-004) ☒ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6"-1' | Bank Height: 1' – 2' | | Channel Width 6 – 8' | | Notes: wider along road for culverts | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical -X | Gradual |
| Substrate %: | Peat-Muck 60% | Silt-Mud 30% | Sand 10% | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Aldrich Road | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 400 - 413
Observers: P. London, R. Lloyd
Date: 4/9/08

Wetland ID: W-10 – WI-010 / W20-192
Town: Putnam
Weather: Overcast, raining, high 40's
Time: 10:30 AM

Dominant NWI Class: PFO - Isolated
Other NWI Classes: POW

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Acer rubrum (FAC) - A; Quercus rubra (FACV) - S

Shrubs: Vaccinium corymbosum (FACW) - A; Rhamnus frangula (FAC) - C; Alnus rugosa (FACW+) - C; Cornus rugosa (FACW) - C

Saplings/Lianas: None

Herbs/Forbes: None

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☒ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | Silt Deposition ☒ | | Water-Stained Leaves ☒ | | Water Marks ☒ | | |
| | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☐ | | |
| | Buttressed Trees ☐ | | Depth of Inundation: ☒ 1-2' | | Depth to Soil Saturation: ☒ surface | | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic histic epipedon

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 4" | Oe | Hemic | -- | -- |
| 4 – 10" | A | Fine sandy loam | 10yR 2/1 | -- |
| 10 – 20" + | Bg | Fine sandy loam | 10yR 4/2 | 2.5y 5/4 – C,M,D |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6" | Bank Height: 1' | | Channel Width 4' | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Aldrich Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-114,200-208,300-315
Observers: P. London, R. Lloyd
Date: 4/9/08

Wetland ID: W-10 – WI-009 / W20-193
Town: Putnam
Weather: Overcast, rain, high 40's
Time: 9:20 AM

Dominant NWI Class: PFO
Other NWI Classes: Pss

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) -D
- Pinus strobus (FACV) - C
- Betula populifolia (FAC) - C

Shrubs:
- Rhamnus frangula (FAC) - C
- Vaccinium corymbosum (FACW) - A
- Alnus rugosa (FACW+) - C
- Rhododendron viscosum (OBL) - A

Saplings/Lianas:

Herbs/Forbes:
- Osmunda cinnamomea (FACW) - S
- Carex stricita (OBL) - A
- Symplocarpus foetidus (OBL) -S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☒ 2-6" | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic - both in ROW

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 12" | A | Mucky fsl | 10yr 2/1 | |
| 12 – 20"+ | Cg | Loamy fine sand | 10yR 6/2 | 10yR 4/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained

River/Stream Data: Trib. of unnamed pond ☐ Perennial ☒ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6" | | Bank Height: 1' | | Channel Width 4' | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☒ | Fast ☐ | | Bank Configuration: | Undercut | Vertical **- X** | Gradual |
| Substrate %: | Peat-Muck 30% | Silt-Mud | Sand 70% | | Gravel 10% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Fox Road | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-118, 200-211
Observers: P. London, R. Lloyd
Date: 4/8/08

Wetland ID: W-10 – WI-008 / W20-194
Town: Putnam
Weather: Sunny, 50's
Time: 1:30 PM

Dominant NWI Class: PFO
Other NWI Classes: Pem, Pss

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - D

Shrubs:
- Alnus rugosa (FACW+) - C
- Lyonia ligustrina (FACW) - C
- Clethra alnifolia (FAC+) - C
- Rhododendron viscosum (OBL) - A
- Vaccinium corymbosum (FACW) - A

Saplings/Lianas:
- None

Herbs/Forbes:
- Typha latifolia (OBL) - A
- Carex stricita (OBL) - A

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☒ Access road w/debris | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | |
| | | Surface Scouring ☒ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: ☒ 0 – 2' | | Depth to Soil Saturation: ☒ surface | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 18" + | C | Fine sandy loam | 10yR 2/1 | 10yR 3/6 – C,M,D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: W-008 has poorly drained and very poorly drained soils.

River/Stream Data: None ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: **Only defined flow is across access road.** | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Fox Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-118, 200-211
Observers: P. London, R. Lloyd
Date: 4/8/08

Wetland ID: W-10 – WI-007 / W20-195
Town: Putnam
Weather: Sunny, 50's
Time: 12:00 PM

Dominant NWI Class: PFO
Other NWI Classes: Pss, POW

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) - D
- Betula alleghaniensis (FAC) - C
- Pinus strobus (FACU)
- Tsuga canadensis (FACU - C

Shrubs:
- Rhododendron viscosum (OBL) - A
- Lyonia ligustrina (FACW) - C
- Vaccinium corymbosum (FACW) - A
- Viburnum recognitum (FACW) - C
- Alnus rugosa (FACW+) - C

Saplings/Lianas:
- Smilax rotundifolia (FAC) - S

Herbs/Forbes:
- Carex stricita (OBL) - C
- Carex sp. (OBL) - C
- Phragmites australis (FACW) - C
- Typha latifolia (OBL) - S
- Symplocarpus foetidus (OBL) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☒ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☒ | Water Marks ☐ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☒ |
| | Buttressed Trees ☐ | Depth of Inundation: ☒ 6-10" | Depth to Soil Saturation: ☒ surface |

Representative Soil Characteristics: ☐ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 20" | Oa | Sapric | 10yR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained

River/Stream Data: None ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Fox Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 300-315
Observers: PL / RL
Date: 4/8/08

Wetland ID: W10Wi006 / W20-196
Town: Putnam
Weather: Sunny 50s
Time: 10:00am

Dominant NWI Class: PSS
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- none

Shrubs:
- Vaccinium corymbosum (FACW) – a
- Viburnum recognitum (FACW-) – a
- Rubus alleghenas (FACW-) – c
- Spirea tomentosa (FACW) – s

Saplings/Lianas:
- none

Herbs/Forbes:
- Carex stricta (OBL) – o
- Osmunda cinnamomea FACW) – c

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☐ | Water Marks ☒ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☐ |
| | Buttressed Trees ☐ | Depth of Inundation: 0" | Depth to Soil Saturation: surface |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 8" | A | Fine sandy loam | 10yr 2/1 | Oxidized rhizospheres |
| 8-16" | B | Fine sandy loam | 10yr 5/2 | 10 yr 3/6 c, m, d |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Poorly drained

River/Stream Data: none ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Providence Pike (RT 44) | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-139; 200-203; 300-315
Observers: PL / RL
Date: 4/4/08

Wetland ID: W10Wi005 / W20-197
Town: Putnam
Weather: Sunny, high 40s
Time: 11:00 am

Dominant NWI Class: PSS
Other NWI Classes: PFO / PEM

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer rubrum (FAC) – D
- Carpinus caroliniana (FAC) – A
- Betula alleghansis (FAC) C
- Ulnus rubra (FAC) – S

Shrubs:

Saplings/Lianas:

Herbs/Forbes:

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☐ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☐ | Water Marks ☐ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☐ |
| | Buttressed Trees ☐ | Depth of Inundation: ☐ | Depth to Soil Saturation: ☐ |

Representative Soil Characteristics: ☐ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations:

River/Stream Data: ☐ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| | Y ☐ | N ☐ | Y ☐ | N ☐ | Y ☐ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100 – 106, 200-202, 300-305
Observers: PL / RL
Date: 4/3/08

Wetland ID: W10WI004 / W20-198
Town: Putnam
Weather: Sunny, high 40s
Time: 3:00 pm

Dominant NWI Class: PFO
Other NWI Classes: PEM / PSS

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer ruburm (FAC) – D
- Pinus strobus (FACU) – A

Shrubs:
- Leucothoe racemosa (FACW) – C
- Rhamnus frangula (FAC) – C
- Lyonia ligustrina (FACW) – C
- Cornus amomum (FACW) – C

Saplings/Lianas:
- Acer rubrum (FAC) – S
- Polyginum perfolatum (FAC)

Herbs/Forbes:
- Carex stricta (OBL) – D
- Onoclea sensibilis (FACW) – C
- Osmunda Cinnamomea (FACW) – C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☒ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☐ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition ☐ | Water-Stained Leaves ☒ | Water Marks ☒ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☒ |
| | Buttressed Trees ☐ | Depth of Inundation: 2 – 3' | Depth to Soil Saturation: surface |

Representative Soil Characteristics: ☒ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 10" | A | Fine sandy loam | 10yr 2/1 | Oxidized rhizosoheres |
| 10-18" | $B_g$ | Fine sandy loam | 10yr 4/2 | 10yr 3/6 C,M,D; organic staining |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: poorly drained

River/Stream Data: ☒ Perennial ☐ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 1-3' | | Bank Height: 2-4 | | Channel Width 30-180' | | Notes: Beaver dam | | |
| Flow Rate: | Slow ☒ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical ☒ | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud: 80% | Sand: 15% | | Gravel 5% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Providence Pike (RT 44) | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-118, 200-212
Observers: PL / RL
Date: 4/3/08

Wetland ID: W10WI003 / W20-199
Town: Putnam
Weather: sunny, high 40s
Time: 12:30 pm

Dominant NWI Class: PFO
Other NWI Classes: PSS

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- Acer ruburm (FAC) - D

Shrubs:
- Vaccinium corymbosum (FACW) – A
- Viburnum recognitum (FACW) – A
- Alnus rugosa (FACW+) – C
- Cornus amomum (FACW) – C
- Sambulus Canadensis (FACW) - S

Saplings/Lianas:
- Acer rubrum (FAC) - C

Herbs/Forbes:
- Carex stricta (OBL) – D

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☐ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☒ | |
| | | Surface Scouring ☐ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☐ | | Depth of Inundation: 6 – 10” | | Depth to Soil Saturation: surface | |

Representative Soil Characteristics: ☒ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-8” | A | Mucky fine sandy loam | 10YR 2/1 | Oxidized rhizospheres |
| 8-16” | $C_a$ | Loamy sand | 10 YR 4/2 | 10YR 3/6, 2.5YR 5/2 – C, M, D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: poorly drained and very poorly drained soils

River/Stream Data: ☐ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow ☐ | Moderate ☐ | Fast ☐ | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Providence Pike (RT 44) | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☒ | N ☐ | |

## WETLAND SUMMARY FIELD DATA FORM

Project: CT Interstate
Flag Series: 100-120; 200-210
Observers: PL / RL
Date: 4/2/80

Wetland ID: W10WI002 / W20-200 &201
Town: Putnam
Weather: Sunny, high 40s
Time: 3:30 pm

Dominant NWI Class: PFO
Other NWI Classes: PSS / PEM

Representative Vegetation (Record Species and Occurrence Percentage):

Trees:
- none

Shrubs:
- Alnus fugosa (FACW+) – A
- Cornus amomum (FACW) – A
- Vaccinium corymbosum (FACW) – A
- Spirea latifolia (FACW+) – S
- Viburnum recognitum (FACW) – C

Saplings/Lianas:
- none

Herbs/Forbes:
- Carex stricta (OBL) – D
- Symplocarpus foetidus (OBL) - S
- Carex spp. (OBL) – s

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. ☐ Flooded | Semi Perm. Flooded ☐ | Seasonally Flooded ☒ | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded ☐ | | | Reg. Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition ☐ | | Water-Stained Leaves ☒ | | Water Marks ☐ | |
| | | Surface Scouring ☒ | | Drift Lines ☐ | | Drainage Patterns ☒ | |
| | | Buttressed Trees ☒ | | Depth of Inundation: 6 – 10” | | Depth to Soil Saturation: surface | |

Representative Soil Characteristics: ☐ Mineral ☒ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-30” | $O_a$ | Sapric | 10YR 4/1 | |
| 30-35”+ | $C_o$ | Sand | 10YR 5/1 | 10YR 3/6 – C, M, D |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Very poorly drained

River/Stream Data: Five Mile Brook (S10WI001) ☒ Perennial ☐ Intermittent

| Depth @ Center: | | Bank Height: N/A | | Channel Width 80’ | | Notes: Bank was flooded | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate ☒ | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck 24% | Silt-Mud – 25% | Sand – 15% | | Gravel – 10% | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Quaddick town farm Rd. | Y ☒ | N ☐ | Y ☒ | N ☐ | Y ☒ | N ☐ | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT Interstate
Flag Series: 400-403
Observers: PL / RL
Date: 4/2/80

Wetland ID: W10WI001 / W20-202
Town: Putnam
Weather: Sunny, high 40s
Time: 1 pm

Dominant NWI Class: PSS – Isolated

Other NWI Classes: N/A

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: none

Shrubs: Alnus rugosa (FACU+) – c
Hamnus frangula (FAC) – c
Viburnam recognitum (FACW) – c

Saplings/Lianas: none

Herbs/Forbes: none

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded ☐ | Semi Perm. ☐ Flooded | Seasonally Flooded | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated ☒ | Intermittently Flooded ☒ | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition: ☐ | Water-Stained Leaves ☒ | Water Marks ☒ |
| | Surface Scouring ☐ | Drift Lines ☐ | Drainage Patterns ☐ |
| | Buttressed Trees ☐ | Depth of Inundation: 6-10" | Depth to Soil Saturation: surface |

Representative Soil Characteristics: ☒ Mineral ☐ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-6" | $C_1$ | Very fine sandy loam | 10yr 3/1 | |
| 6-16" | $C_2$ | Very fine sandy loam | 10yr 4/2 | 10yr 3/6 – L,M,P |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: excavated depression – isolated, poorly drained

River/Stream Data: None _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Quaddack Town farm Road | Y ☒ | N ☐ | Y ☐ | N ☒ | Y ☐ | N ☒ | |

**Town of Thompson, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 101 – 130; 201 – 238; & 301 – 340
Observers: J. Gass/R. Lloyd _____
Date: 03/13/08 _____

Wetland ID: ENSR# W-03-WI-009/NU# w20-203
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Atlantic white cedar (Chamaecyparis thyoides) - A
_____

Shrubs: _____N/A_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cattails (Typha latifolia) -D
Sphagnum moss (Sphagnum sp.) - A
Tussock sedge (Carex stricta) -A
Skunk cabbage (Symplocarpus foetidus) -C
Woolgrass (Scirpus cyperinus) –C
Phragmites (Phragmites australis) –C
Purple loosestrife (Lythrum salicaria) -S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 24+ | Oe | Peaty muck | 10 YR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soil and 38C - Hinckley gsl, 3-15% slopes

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 1,000 feet northeast | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 101 – 114 & 201 – 213 _____
Observers: J. Gass/R. Lloyd _____
Date: 03/13/08 _____

Wetland ID: ENSR# W-03-WI-008/NU# w20-204
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS_____ Other NWI Classes: PFO_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -C
_____
_____
_____
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -D
Winterberry (Ilex verticillata) -A
Silky dogwood (Cornus amomum) -C
Gray dogwood (Cornus racemosa) -S
Swamp rose (Rosa palustris) -S

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Woolgrass (Scirpus cyperinus) - A
Sensitive fern (Onoclea sensibilis) -C
Soft rush (Juncus effuses) -C
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | 10 YR 2/1 | -- |
| 8 – 12+ | A | | 10 YR 2/4 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 73C - Charlton-Chatfield complex, 3-15% slopes, very rocky

River/Stream Data: Teft Brook (S-03-WI-003) ____**X**_____ Perennial _____ Intermittent

| Depth @ Center: 6 – 8" | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 100 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 301 – 307 _____
Observers: J. Gass/R. Lloyd _____
Date: 03/13/08 _____

Wetland ID: ENSR# W-03-WI-007/NU# W20-205
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Winterberry (Ilex verticillata) -D
Highbush blueberry (Vaccinium corymbosum) -C
Ironwood (Carpinus caroliniana) -S
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -D
Sphagnum moss (Sphagnum sp.) -S
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | 10 YR 2/1 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 400 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 401 - 407 _____
Observers: J. Gass/R. Lloyd _____
Date: 03/13/08_____

Wetland ID: ENSR# W-03-WI-006/NU# W20-206
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PSS/PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____
_____
_____

Shrubs: Winterberry (Ilex verticillata) -D
Highbush blueberry (Vaccinium corymbosum) - C
_____
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____

Herbs/Forbes:

Reed canary grass (Phalaris arundinacea) - C
Sensitive fern (Onoclea sensibilis) -C
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Areas of standing water | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 6 | O | -- | 10 YR 2/1 | -- |
| 6 – 12+ | A | -- | 10 YR 3/5 | -- |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C - Woodbridge fsl, 2-15% slopes, extremely stony and 61B - Canton & Charlton soils, 3-8% slopes, very stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 50 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 101 – 165 & 201 – 218 _____
Observers: J . Gass/R. Lloyd _____
Date: 03/12/08 _____

Wetland ID: ENSR# W-03-WI-005/NU# W20-207
Town: Thompson, CT_____
Weather: _____
Time: _____

Dominant NWI Class: PFO/PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -D
_____
_____
_____
_____

Shrubs: Winterberry (Ilex verticillata) -D
Highbush blueberry (Vaccinium corymbosum) -A
Ironwood (Carpinus caroliniana) -S
Spicebush (Lindera benzoin) -S
_____

Saplings/Lianas:
_____N/A_____
_____
_____

Herbs/Forbes:
Cinnamon fern (Osmunda cinnamomea) - D
Sphagnum moss (Sphagnum sp.) -A
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Area identified as Vernal Pool/Amphibian breeding habitat | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**_____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | -- | 10 YR 2/1 | -- |
| 8 – 15+ | A | -- | 10 YR 2/4 | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: Teft Brook (S-03-WI-004) ____**X**_____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 6 – 10” | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles **X** | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 750 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 301 – 326 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/28/08 _____

Wetland ID: ENSR# W-03-WI-002/NU# w20-208
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -D
Green ash (Fraxinus pennsylvanica) - C
Hemlock (Tsuga canadensis) -S
White pine (Pinus strobus) -S
_____

Shrubs: Pepperbush (Clethra alnifolia) -A
_____
_____
_____
_____

Saplings/Lianas:
_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:
Sphagnum moss (Sphagnum sp.) -D
Cinnamon fern (Osmunda cinnamomea) -C
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Seeps | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 15” | O | Muck | 10 YR 2/1 | -- |
| 15+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,400 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 401 – 408 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/28/08 _____

Wetland ID: ENSR# W-03-WI-004/NU# w20-209
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PEM_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: _____N/A_____
_____
_____

Shrubs: Highbush blueberry (Vaccinium corymbosum) -S
Winterberry (Ilex verticillata) -S
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sedges (Carex spp.) -D
Reed canary grass (Phalaris arundinacea) -A
Sphagnum moss (Sphagnum sp.) - C
Woolgrass (Carex stricta) -C
Cattails (Typha latifolia) –S
Sensitive fern (Onoclea sensibilis) -S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 15+ | Oa | Muck | 10 YR 2/1 | -- |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-WI-002 _____ Perennial _____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 4 – 6" | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,400 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project _____
Flag Series: 301 – 326 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/28/08 _____

Wetland ID: ENSR# W-03-WI-003/NU# w20-210
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -D
Green ash (Fraxinus pennsylvanica) -C
Black birch (Betula lenta) C
White pine (Pinus strobus) -C
_____

Shrubs: Winterberry (Ilex verticillata) -C
Witch-hazel (Hamamelis virginiana) -C
Highbush blueberry (Vaccinium corymbosum) -S
_____
_____

Saplings/Lianas:

_____N/A_____
_____
_____
_____
_____

Herbs/Forbes:

Sphagnum moss (Sphagnum sp.) - C
_____
_____
_____
_____

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| Mound & pool topography | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ____**X**____ Mineral _____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | O | Muck | 10 YR 2/1 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 3- Ridgebury, Leicester, and Whitman soils, extremely stony

River/Stream Data: S-03-WI-002 _____ Perennial ____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 4 - 6" | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,400 feet west | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ___
Flag Series: 101 – 120 & 201 – 219 _____
Observers: J. Gass/R. Lloyd _____
Date: 02/27/08 _____

Wetland ID: ENSR# W-03-WI-001/NU# W20-211
Town: Thompson, CT _____
Weather: _____
Time: _____

Dominant NWI Class: PFO_____ Other NWI Classes: PSS_____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Red maple (Acer rubrum) -D

Shrubs: Witch-hazel (Hamamelis virginiana) - S

Saplings/Lianas:

White pine (Pinus strobus) - A

Herbs/Forbes:

Cinnamon fern (Osmunda cinnamomea) -D
Sphagnum moss (Sphagnum sp.) - D
Gold thread (Coptis trifolia) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: | Silt Deposition | Water-Stained Leaves | Water Marks |
| Also – | | | |
| Inundated soils | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: _____ Mineral ____**X**_____ Organic

| Depth (in) | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | Oa | Muck | 10 YR 2/1 | -- |
| 8+ | R | | | |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 17 - Timakwa & Natchaug soils

River/Stream Data: S-03-WI-001 _____ Perennial _____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 4 – 6" | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 4,800 feet west | Y | N | Y | N | Y | N | |

# Appendix C

## 2008 Representative Site Photographs

East view of W20-1

Northeast view of W20-2





East view of W20-3

West view of W20-4

East view of W20-5

East view of W20-6





East view of W20-7

West view of W20-8

West view of W20-9

Southeast view of W20-10





Southeast view of W20-11

Southeast view of W20-12

North view of W20-13

North view of W20-14





Southeast view of W20-15

W20-16

South view of W20-17

W20-18





W20-19

Southeast view of W20-20

East view of W20-21

South view of W20-22





W20-23

North view of W20-24

South view of S20-2 (Hop River)

West view of W20-25





South view of W20-26

W20-27

Northwest view of W20-28

Southwest view of W20-29





North view of W20-30

Northeast view of W20-31

W20-32

Northeast view of W20-33





View of W20-34 and S20-5

Southwest view of W20-35

North view of W20-36

North view of W20-37





North view of W20-38

View of W20-39 and S20-7

North view of W20-40

W20-41





East view of W20-42

North view of W20-43 and S20-8

East view of W20-44

S20-10





North view of W20-45

W20-46 and S20-12

South view of W20-47 and S20-13

North view of W20-48 and S20-14





Southwest view of W20-49

South view of W20-50

Southwest view of W20-51

North view of W20-52





Southeast view of W20-53

W20-54

Northwest view of W20-55 and S20-16

Southeast view of W20-56





W20-57

West view of W20-58

Northwest view of W20-59

East view of W20-60





West view of W20-61 and S20-18

Northeast view of W20-62

W20-62A

W20-62B





W20-62C

East view of W20-63

West view of W20-64

South view of W20-65





South view of W20-66

South view of W20-67 and S20-20

North view of W20-68 and S20-20

W20-69 and S20-21





W20-70

W20-71

East view of W20-72

East view of W20-73





Natchaug River / S20-22

South view of W20-74 and S20-23

W20-75

East view of W20-76





West view of W20-77

North view of W20-78

North view of W20-79

East view of W20-80 and S20-25





W20-81

North view of S20-26

W20-82

East view of W20-83





East view of W20-84

East view of W20-85

W20-86

East view of W20-87





West view of W20-88

North view of S20-28

View of W20-89 and Buttonball Brook / S20-29

W20-90





West view of W20-91

W20-92

W20-93 and S20-31

W20-94





North view of W20-95

East view of W20-96

W20-97

W20-98





W20-99

W20-100

North view of W20-101 and S20-35

W20-102





W20-103

W20-104

West view of W20-105

West view of W20-106





Northeast view of W20-107

Northwest view of W20-108 and S20-39

Northeast view of W20-109

W20-110





East view of W20-111

W20-112

Northwest view of W20-112A

North view of W20-113





East view of W20-114

W20-115

W20-116 and S20-41

Northeast view of W20-117





Northeast view of W20-118

W20-119

Northeast view of W20-120

Northeast view of W20-121





Northeast view of W20-122

Northeast view of W20-123

Northeast view of W20-124

Northeast view of W20-125





North view of W20-126

W20-127

South view of W20-128

Northeast view of W20-129





W20-130

West view of W20-131

South view of W20-132

South view of W20-133





Southwest view of W20-134

North view of W20-135

South view of W20-136

W20-137





North view of S20-42

South view of W20-138

North view of W20-139

Northeast view of W20-140





Southwest view of W20-141

West view of W20-142

Southwest view of W20-143

Northwest view of W20-144





Northeast view of W20-145 and S20-43

West view of W20-146

North view of W20-147

Northeast view of W20-148





Southwest view of W20-149

Southwest view of W20-150

W20-151

S20-47





S20-48

W20-152

W20-153

S20-49





W20-154

W20-155

W20-156

W20-157





W20-158

W20-159

W20-160

Northwest view of W20-160A





W20-161

W20-162

W20-163

South view of W20-164





W20-165

W20-166

W20-167

W20-168





South view of W20-169

West view of W20-170

East view of W20-171

W20-172





Northwest view of W20-173

West view of W20-174

East view of W20-175

Northwest view of W20-176





W20-177

East view of W20-178

Southeast view of W20-179

North view of W20-180





Southeast view of W20-181

Southwest view of W20-182

W20-183

South view of W20-184





S20-60

West view of W20-185

East view of W20-186

W20-187





W20-188

South view of W20-189

South view of W20-190

S20-61





Southwest view of W20-191

West view of W20-192

Northwest view of W20-193

W20-194





Northeast view of W20-195

South view of W20-196

W20-197

East view of W20-198





South view of W20-199

East view of W20-200

Five Mile River / S20-64

W20-202





W20-203

W20-204 and S20-65

W20-205

W20-206





W20-207

S20-66

W20-208

W20-209





W20-210

W20-211

# Appendix D

## 2011 Wetlands and Watercourses Field Data Forms

**Town of Mansfield, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Wetland ID: W20-39A
Flag Series: 101 –110
Tow n: Mansfield, CT
Observers: R. Weissman/A. Milliman
Weather:
Date: 04/20/11
Time:

Dominant NWI Class: PSS
Other NWI Classes: PFO (outside maintained ROW)

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: Black birch (*Betula lenta*) - C
Hop hornbeam (*Ostrya virginiana*) - S

Shrubs:
Spicebush (*Lindera benzoin*) - A
Speckled alder (*Alnus rugosa*) - C
Ground juniper (*Juniperus communis*) - C
Autumn olive (*Elaegnus umbellatus*) - C
Hazelnut (*Corylus Americana*) – S
Grey birch (*Betula populifolia*) – S

Saplings/Lianas: Her bs/Forbes:

Red cedar (*Juniperus virginiana*) - S
Yellow birch (*Betula alleghaniensis*) - S

Grasses spp. – C
Skunk cabbage (*Symplocarpus foetidus*) - S
Sensitive fern (*Onoclea sensibilis*) - S
Goldenrod (*Solidago spp.*) – S
Seedbox (*Ludwigia spp*) - S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: Perm. | Flooded | Semi Perm. Flooded | Seasonally Flooded -- **X** | Tida | l: | Subtidal | Irregularly Exposed |
| S | aturated | Intermittently Flooded | Artificially Flooded | Reg. | | Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: **Sphagnum moss** | Silt Deposition | Water-Stained Leaves -- **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: **surface** |

Representative Soil Characteristics: Mineral **X** Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-5” | O | Muck | 10YR 2/1 | O layer deeper (8”+) in some areas |
| 5-12” | A | Loamy coarse sand | 10YR 3/2 | 10YR 4/6 concentrations (common) |
| 12-18”+ | B | Fine sandy loam | 2.5Y 5/2 | 2.5Y 5/6 and 10YR 4/6 concentrations |

Other Soil Observations: Area mapped as unit 85C - Paxton and Montauk fine sandy loams

River/Stream Data: **N/A** Perennial Intermittent

| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: Underc ut | | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud Sand | | | Gravel | Cobbles Boulders | | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Existing access road adjacent | Y | **N** | Y | **N** | Y N | | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Wetland ID: W20-45A
Flag Series: 301-311
Tow n: Mansfield, CT
Observers: R. Weissman/A. Milliman
Weather:
Date: 04/21/11
Time:

Dominant NWI Class: PEM
Other NWI Classes: PFO (outside maintained ROW)

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: None

Shrubs: Multiflora rose (*Rosa multiflora*) - C
Arrowwood (*Viburnum dentatum*) - S

Saplings/Lianas: None

Herbs/Forbes:
Grasses spp. – A
Soft rush (*Juncus effusus*) – A
Sensitive fern (*Onoclea sensibilis*) - S
Goldenrod (*Solidago spp.*) – S
Skunk cabbage (*Symplocarpus foetidus*) – C
Jewelweed (*Impatiens capensis*) - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: Perm. Flooded | | Semi Perm. Flooded | Seasonally Flooded | Tida | l: | Subtidal | Irregularly Exposed |
| S | aturated | Intermittently Flooded | Artificially Flooded | Reg. | | Flooded | Irregularly Flooded |
| Hydrologic Indicators: | | Silt Deposition | | Water-Stained Leaves | | Water Marks | |
| | | Surface Scouring | | Drift Lines | | Drainage Patterns | |
| | | Buttressed Trees | | Depth of Inundation: | | Depth to Soil Saturation: | |

Representative Soil Characteristics: **X** Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0-8” | | Loam | 10YR 2/1 | |
| 8-10” | | Loam | 10YR 2/1 | 10YR 3/6 concentrations (common) |
| 10-14”” | | Loam | 10YR 2/1 | 5YR 3/6 concentrations (common) and 10YR 5/3 mottles (few) |
| 14-18”+ | | FSL | 2.5Y 5/2 | 10YR 4/6 concentrations (common) |

Other Soil Observations: Area mapped as unit 3 - Ridgebury

River/Stream Data: **N/A** _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: Undercut | | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud Sand | | | Gravel | Cobbles Boulders | | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Existing access road adjacent | Y | **N** | Y | **N** | Y N | | |

**Town of Hampton, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____ Wetland ID: NU# W20-95a
Flag Series: 400 – 404 _____ Town: Hampton, CT_____
Observers: J. Stearns/A. Milliman _____ Weather: Rain_____
Date: 05/17/2011__ _____ Time: 1400_____

Dominant NWI Class: PFO_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Betula alleghaniensis A* Shrubs: *Clethra alnifolia* - A
*Rhododendron viscosum* - C

Saplings/Lianas: Her bs/Forbes:

*Betula alleghaniensis A*

*Osmunda cinnamomea* - C
*Onoclea sensibilis* - S
*Juncus effusus* - S
*Spiraea alba*- C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded -- **X** | Tida | l: | Subtidal | Irregularly Exposed |
| S | aturated | Intermittently Flooded | Artificially Flooded | Reg. | | Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Standing water present | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 10 | Oe | Organic | | -- |
| 10+ | | Fine sandy loam | 2.5Y 5/1 | Depleted matrix |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 75C Hollis-Chatfield-Rock outcrop complex

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: Underc ut | | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud Sand | | | Gravel | | Cobbles Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| South Brook Road located 1/3 mile west. | Y | N - **X** | Y | N- **X** | Y | N -**X** | Wetland to side of potential access road. |

**Town of Brooklyn, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____ Wetland ID: W20-154A

Flag Series: 300-303 Town: Brooklyn, CT

Observers: J. Stearns/A. Milliman Weather: Sunny

Date: 05/12/2011 Time: 1100

Dominant NWI Class: PSS Other NWI Classes: PFO

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum D*
*Carpinus caroliniana* C
*Carya* sp. C

Shrubs: *Cornus amomum - A*
*Vaccinium corymbosum* - C
*Elaeagnus umbellate - A*
*Spiraea tomentosa – C*
*Rosa multiflora - S*

Saplings/Lianas:

Herbs/Forbes:

*Osmunda cinnamomea* – C
*Impatiens capensis*– C
*Onoclea sensibilis* – D
*Carex stricta* - D

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Standing water present | Silt Deposition | Water-Stained Leaves **X** | Water Marks: **Pooled water** |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees – **X** | Depth of Inundation: | Depth to Soil Saturation: **to surface** |

Representative Soil Characteristics: **X** Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0–14” | Ap | FSL | 10 YR 3/2 | Oxidized rhizospheres |
| 14-18” | Bw | FSL | 2.5Y 5/2 | With bright mottles |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 103 Rippowam Fine Sandy Loam

River/Stream Data: Yes _____ Perennial X Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 3” | | Bank Height: 1-3’ | | Channel Width 3’ | | Notes: intermittent stream drains wetland south east, define channel dissipates within ROW although flow may continue toward wetlands to further south east. | | |
| Flow Rate: | **Slow** | Moderate | Fast | Bank Configuration: | | Undercut | **Vertical** | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | **Gravel** | | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Pomfret Road | Y | N | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Flag Series: 300-312
Observers: J. Stearns/J. Berg
Date: 05/10/2011
Wetland ID: W20-159A
Town: Brooklyn, CT
Weather: Sunny
Time: 1200

Dominant NWI Class: PEM
Other NWI Classes: PFO on fringes

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum A* at fringes

Shrubs: *Cornus amomum* - A
*Rosa multiflora* – C
*Frangula alnus* - A

Saplings/Lianas:

Herbs/Forbes:
*Phalaris arundinacea* – D
*Onoclea sensibilis* – S
*Impatiens capensis-C*

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Standing water present | Silt Deposition | Water-Stained Leaves | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: to surface | Depth to Soil Saturation: to surface |

Representative Soil Characteristics: **X** Mineral **X** Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 16 | Ap | 10YR 2/1 | | -- |
| 16-20 | O | Organic | Black | |
| 20+ | B | Sandy loam | 5YR 5/2 | Many bright mottles. |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 50A Sutton Fine Sandy Loam

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | Stream Crossing | Swamp Mats Needed | Notes |
|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 900' East of Church Street.. | Y | N - **X** | Y | N- **X** | Y | N -**X** | Wetland is located to the side of ROW but completely within property boundary. Only west side of wetland was delineated. |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____ Wetland ID: W20-160B

Flag Series: 300-303 Town: Brooklyn, CT

Observers: J. Stearns/J. Berg Weather: Sunny

Date: 05/10/2011 Time: 1300

Dominant NWI Class: PFO Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum A*

Shrubs: *Lindera benzoin* - A
*Berberis thunbergii* – S

Saplings/Lianas:

Herbs/Forbes:
*Toxicodendron radicans* -C
*Berberis thunbergii* – S

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Standing water present | Silt Deposition | Water-Stained Leaves **X** | Water Marks: **Pooled water** |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees –<br>**X** | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: **X** Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | |
|---|---|---|---|---|
| 0 - 10 | A | Loamy Sand | 7.5 YR 4/21 | -- |
| 10-18 | B | LS | 5YR 7/2 | With bright mottles |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 34B Merrimac SL

River/Stream Data: N/A _____ Perennial _____ Intermittent

| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Day Road | Y | N - **X** | Y | N- **X** | Y | N -**X** | |

**Town of Pomfret, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Flag Series: 300-305
Observers: J. Stearns/J. Berg
Date: 05/10/2011
Wetland ID: W20-161A
Town: Pomfret, CT
Weather: Sunny
Time: 1300

Dominant NWI Class: PFO
Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Acer rubrum* A
*Carpinus caroliniana* A
*Carya* sp. C

Shrubs: *Lindera benzoin* - A
*Berberis thunbergii* – S
*Ilex verticillata* C
*Vaccinium corymbosum*-C

Saplings/Lianas:

Herbs/Forbes:
*Osmunda cinnamomea* – D
*Berberis thunbergii* – S
*Toxicodendron radicans* -C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded -- **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Standing water present | Silt Deposition | Water-Stained Leaves **X** | Water Marks: **Pooled water** |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees –<br>**X** | Depth of Inundation: | Depth to Soil Saturation: **to surface** |

Representative Soil Characteristics: **X** Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 16 | Ap | FSL | 10 YR 2/1 | -- |
| 16-20 | B | FSL | 2.5Y 4/2 | With faint mottles |
| 20+ | B | FSL | 2.5 Y 4/3 | With faint mottles |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 47C Woodbridge Fine Sandy Loam

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Hartford Pike is approx. ½ north. | Y | N - **X** | Y | N- **X** | Y | N -**X** | Wetland is located at the north fringe of ROW. |

**Town of Killingly, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____
Flag Series: 400 – 408 _____
Observers: J. Stearns/J. Berg _____
Date: 05/9/2011___ _____

Wetland ID: NU# W20-170a
Town: killingly, CT_____
Weather: Sunny_____
Time: 1000_____

Dominant NWI Class: PSS_____ Other NWI Classes: _PFO_____

Representative Vegetation (Record Species and Occurrence Percentage): Area disturbed by utility pole structure installation, stormwater drainage patterns to larger wetland north.

Trees: *Pinus strobes*-C Shrubs:

_____ _____
_____ _____
_____ _____
_____

*Frangula alnus* - A
*Cornus amomum* - C
*Viburnum recognitum* - C
*Sambucus canadensis* - C

Saplings/Lianas: Her bs/Forbes:

N/A

_____ _____
_____ _____
_____ _____

*Onoclea sensibilis* - C
*Carex stricta* - C
*Solidago sp.* - C
*Spiraea alba*- C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded -- **X** | Tida | l: | Subtidal | Irregularly Exposed |
| S | aturated | Intermittently Flooded | Artificially Flooded | Reg. | | Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Standing water present | Silt Deposition | Water-Stained Leaves - **X** | Water Marks - **X** |
| | Surface Scouring **X** | Drift Lines | Drainage Patterns - **X** |
| | Buttressed Trees | Depth of Inundation: **2 in** | Depth to Soil Saturation: **soil surface** |

Representative Soil Characteristics: ___X_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 12 | A | Fine sandy loam | 10YR 2/1 | Redox features |
| 12+ | B | Fine sandy loam | 2.5Y 5/3 | 2.5Y6/2 depleations |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 61B – Canton and Charlton very stony

River/Stream Data: N/A _____ Perennial ____**X**_____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: 1’ | | Channel Width 2’ | | Notes: Drains from outlet at Lake Rd wetland located south of Lake Rd | | |
| Flow Rate: | Slow **X** | Moderate Fast | | | Bank Configuration: Underc ut | | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud Sand | **X** | Gravel | **X** | Cobbles Boulders | | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Road located 20 feet south | Y | N **X** | Y | N **X** | Y N | | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project ____ Wetland ID: NU# W20-171A
Flag Series: 400 – 406 _____ Town: Killingly, CT_____
Observers: J. Stearns/J. Berg _____ Weather: Sunny_____
Date: 05/9/2011___ _____ Time: 1200_____

Dominant NWI Class: PSS_____ Other NWI Classes: _____

Representative Vegetation (Record Species and Occurrence Percentage): Area disturbed by utility pole structure installation, stormwater drainage patterns to larger wetland north.

Trees: N/A Shrubs:

_____ _____
_____ _____
_____ _____

*Lyonia ligustrina* - A
*Cornus amomum* - C
*Frangula alnus*-C
*Spiraea tomentosa* – C

Saplings/Lianas: Herbs/Forbes:

N/A

_____ _____
_____ _____

*Carex stricta* - S
*Scirpus cyperinus* - C

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Circle where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. | Semi Perm. Flooded | Seasonally Flooded | Tida | l: | Subtidal | Irregularly Exposed |
| S | aturated | Intermittently Flooded | Artificially Flooded | Reg. | | Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Standing water present | Silt Deposition | Water-Stained Leaves | Water Marks - **X** |
| | Surface Scouring | Drift Lines | Drainage Patterns - **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: **soil surface** |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 - 8 | Ap | Fine sandy loam | 10YR 2/1 | |
| 8-16 | B | Fine sandy loam | 10YR 5/2 | Many bright 10YR 4/6 mottles |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Area mapped as 62C – Canton and Charlton extremely stony

River/Stream Data: N/A _____ Perennial _____ Intermittent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | | Channel Width | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: Underc ut | | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud Sand | | | Gravel | Cobbles Boulders | | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| Lake Road located 1000 feet south | Y | N **X** | Y N | | Y N | | |

**Town of Putnam, CT**

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Flag Series: 400 – 406
Observers: T. O'Sullivan/J. Berg
Date: 4/26/11

Wetland ID: W20-181A
Town: Putnam, CT
Weather: 70° F, partly sunny, humid
Time: ~ 1:40 PM

Dominant NWI Class: PSS

Other NWI Classes: PEM

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: N/A

Shrubs: *Rhamnnus frangula* - A
*Rosa multiflora* - C
*Lonicera tatarica* - C

Saplings/Lianas:

*Toxicodenron radicans - S*

Herbs/Forbes:

*Polygonum sagitattum - A*
*Juncus effusus - C*
*Carex stricta - C*

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Indicate where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated **X** | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area ponded to 10-16" | Silt Deposition | Water-Stained Leaves **X** | Water Marks |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: 10-16" | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 11" | A | Mucky, Very Fine Sandy Loam | 2.5/N | |
| 11-16" | Bg | Fine Sandy Loam | 10YR5/2 | 10YR5/4 |
| Refusal at 16" | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Isolated wetland.

River/Stream Data: NA Perennial: Intermittent:

| Depth @ Center: | | Bank Height: | | Channel Width: | | Notes: | | |
|---|---|---|---|---|---|---|---|---|
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 800 feet SW to Park Road | Y | N **X** | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Flag Series: 300 – 306
Observers: T. O'Sullivan/J. Berg
Date: 4/26/11

Wetland ID: W20-181B
Town: Putnam, CT
Weather: 70° F, partly sunny, humid
Time: ~ 2:20 PM

Dominant NWI Class: PFO

Other NWI Classes:

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: *Quercus palustris* - A
*Pinus strobes* - C
*Quecrus bicolor* - C

Shrubs: *Vaccinium corymbosum* - A
*Ilex verticillata - C*

Saplings/Lianas:

*Toxicodenron radicans - S*

Herbs/Forbes:

NA

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Indicate where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated **X** | Intermittently Flooded **X** | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators:<br>Area ponded to 8-10" | Silt Deposition | Water-Stained Leaves **X** | Water Marks **X** |
| | Surface Scouring | Drift Lines | Drainage Patterns |
| | Buttressed Trees | Depth of Inundation: 10-16" | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 12" | A | Mucky, Very Fine Sandy Loam | 2.5/N | |
| 12-16x +" | Bg | Fine Sandy Loam | 10YR5/2 | 10YR5/4 |
| | | | | |
| | | | | |
| | | | | |

Other Soil Observations: Isolated wetland.

River/Stream Data: NA Perennial: Intermittent:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: | | Bank Height: | | Channel Width: | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand | | Gravel | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 450' feet SW to Park Road | Y | N **X** | Y | N | Y | N | |

**WETLAND SUMMARY FIELD DATA FORM**

Project: CT-Interstate Reliability Project
Flag Series: 300 – 305
Observers: T. O'Sullivan/J. Berg
Date: 4/26/11

Wetland ID: W20-182A
Town: Putnam, CT
Weather: 70° F, partly sunny, humid
Time: ~ 1:00 PM

Dominant NWI Class: PSS

Other NWI Classes: PEM

Representative Vegetation (Record Species and Occurrence Percentage):

Trees: N/A

Shrubs: *Lyonia ligustrina* - A
*Vaccinium corymbosum* - C
*Spiraea tomentosa* - C

Saplings/Lianas:

*Smilax rotundifolia*

Herbs/Forbes:

*Symplocarpus foetidus - A*
*Juncus effusus - C*
*Onoclea sensibilis - C*

D = Dominant (>50%), A = Abundant (26-50%), C = Common (6-25%), S = Sparse (<5%)

Representative Hydrologic Characteristics (Indicate where appropriate)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Non-Tidal: | Perm. Flooded | Semi Perm. Flooded | Seasonally Flooded **X** | | Tidal: | Subtidal | Irregularly Exposed |
| | Saturated **X** | Intermittently Flooded | Artificially Flooded | | | Reg. Flooded | Irregularly Flooded |

| | | | |
|---|---|---|---|
| Hydrologic Indicators: Area ponded | Silt Deposition | Water-Stained Leaves **X** | Water Marks |
| | Surface Scouring **X** | Drift Lines | Drainage Patterns **X** |
| | Buttressed Trees | Depth of Inundation: | Depth to Soil Saturation: |

Representative Soil Characteristics: ___**X**_____ Mineral _____ Organic

| Depth | Horizon | Texture | Matrix Color | Redox Features/Notes |
|---|---|---|---|---|
| 0 – 14" | A | Mucky, Very Fine Sandy Loam | 10 YR 2/1 | |
| 14-16" | Bw | Fine Sandy Loam | 10YR3/4 | |
| 16-20"+ | Bg | Fine Sandy Loam | 10YR4/2 | Common, 10YR6/6 |
| | | | | |
| | | | | |

Other Soil Observations: Isolated wetland, intermittent stream discharges from wetland and infiltrates into upland.

River/Stream Data: Perennial: Intermittent: **X**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth @ Center: 2-3" | | Bank Height: 6-12" | | Channel Width12-18" | | Notes: | | |
| Flow Rate: | Slow | Moderate | Fast | | Bank Configuration: | Undercut | Vertical | Gradual |
| Substrate %: | Peat-Muck | Silt-Mud | Sand **X** | | Gravel **X** | Cobbles | Boulders | Artificial |

Access Routes

| Nearest Road Crossing | Wetland Crossing | | Stream Crossing | | Swamp Mats Needed | | Notes |
|---|---|---|---|---|---|---|---|
| ~ 2,200 feet north to RT 12 | Y | N **X** | Y | N **X** | Y | N **X** | |

# Appendix E

## 2011 Representative Site Photographs

W20-39A

W20-45A

W20-154A

East view of W20-159A

South view of W20-160B

West view of W20-161A

East view of W20-170A

South view of W20-171A

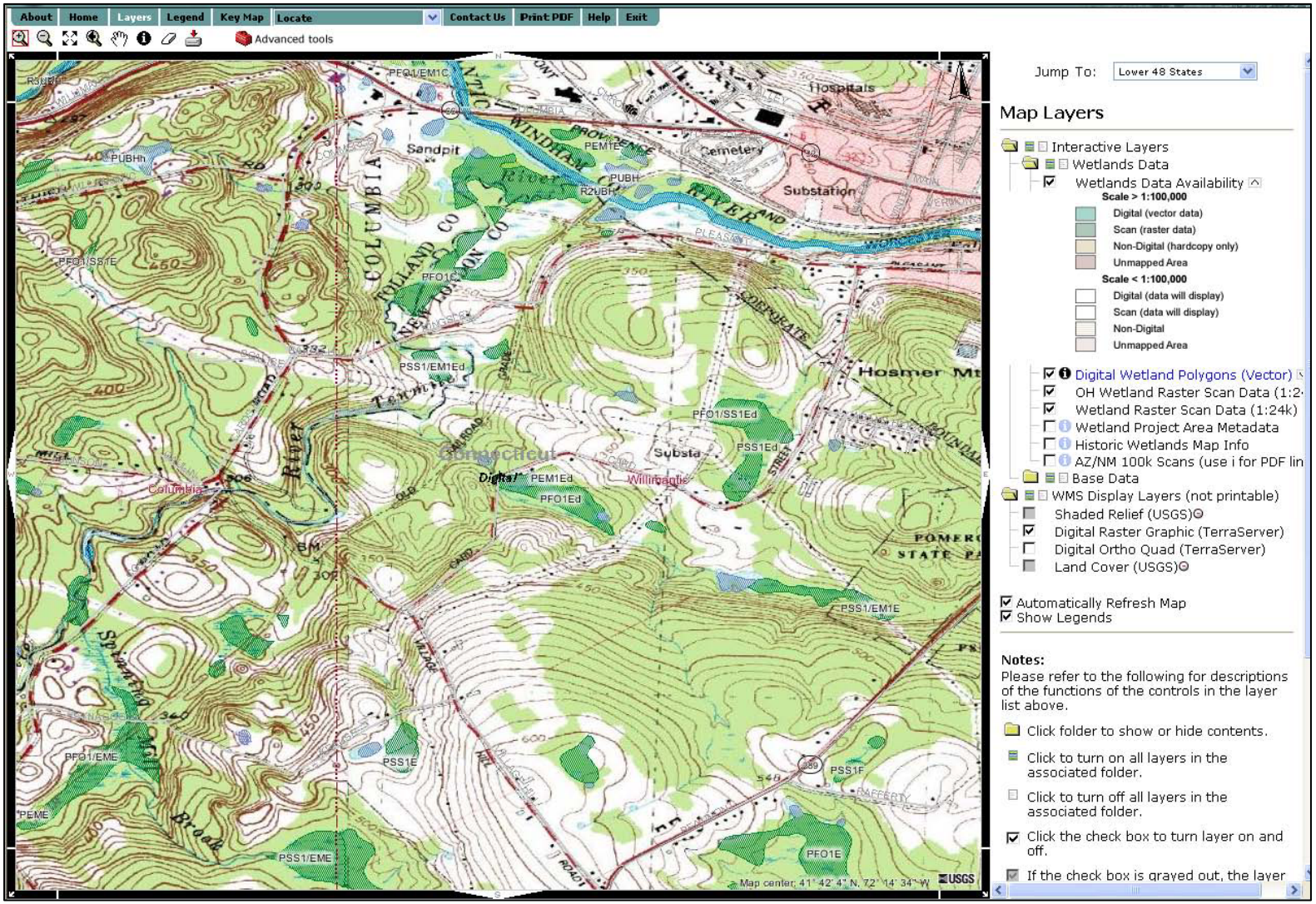
West view of W20-181A

West view of W20-181B

Southeast view of W20-182A

# Appendix F

## Hydric Soils Wetland Mapping Resources





**Legend**

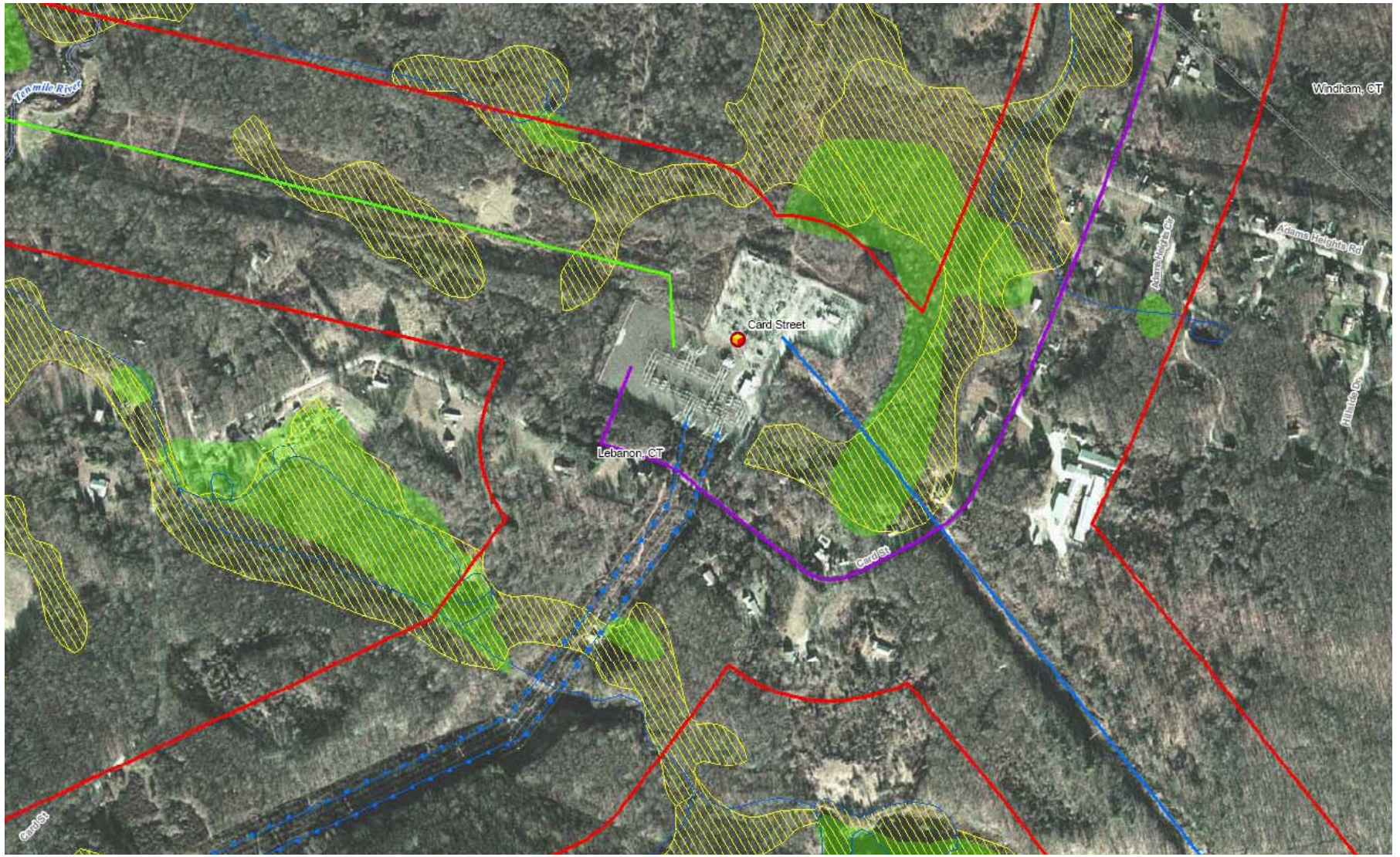
NWI Wetland

**Figure 1**

Example of NWI Information
October 2008
Source: USFWS, Geocortex Internet Mapping

Connecticut Light & Power
The Northeast Utilities System

AECOM





**Legend**

- Substation
- 1000 ft Sudy Corridor
- Blue Route
- Brown Route
- Card Street to Village Hill Road Jct.
- CT DEP Wetlands
- NWI Wetlands
- Rivers
- Lakes
- N

**Figure 2**

Example of CT DEP Information
October 2008
Source: AECOM 2007; State of Connecticut GIS Data

Connecticut Light & Power
The Northeast Utilities System

AECOM

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Shopping Cart

Printable Version | Add to Shopping Cart

## Map Unit Legend

State of Connecticut (CT600)

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 3 | Ridgebury, Leicester, and Whitman soils, extremely stony | 38.8 | 8.4% |
| 17 | Timakwa and Natchaug soils | 33.1 | 7.1% |
| 34A | Merrimac sandy loam, 0 to 3 percent slopes | 1.7 | 0.4% |
| 38C | Hinckley gravelly sandy loam, 3 to 15 percent slopes | 0.5 | 0.1% |
| 45B | Woodbridge fine sandy loam, 3 to 8 percent slopes | 13.9 | 3.0% |
| 46B | Woodbridge fine sandy loam, 2 to 8 percent slopes, very stony | 13.9 | 3.0% |
| 47C | Woodbridge fine sandy loam, 2 to 15 percent slopes, extremely stony | 17.9 | 3.9% |
| 51B | Sutton fine | 13.1 | 2.8% |
| Totals for Area of Interest (AOI) | | 463.4 | 100.0% |

Legend

## Soil Map

Scale (not to scale)



**Legend**

17 Map Unit Symbol

N

**Figure 3**

Example of Soil Survey Information
October 2008
Source: NRCS, Web Soil Survey 2.0

Connecticut Light & Power
The Northeast Utilities System

AECOM