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#### **Deborah Denfeld**

Team Lead- Transmission Siting Tel: (860) 728-4654

February 19, 2024

Melanie Bachman, Esq. Executive Director Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

Re: Christian Street Junction to Stevenson Substation Rebuild Project

Dear Attorney Bachman:

The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") is requesting a Declaratory Ruling from the Connecticut Siting Council ("Council") that no Certificate of Environmental Compatibility and Public Need is required for the Christian Street Junction to Stevenson Substation Rebuild Project ("Project"), which proposes modifications to the existing 1580 and 1808 lines, in the towns of Oxford and Monroe, Connecticut ("Petition").

Prior to submitting this Petition, Eversource representatives briefed municipal officials about the Project and provided written notice to all abutters of the proposed work, and also of the filing of this Petition with the Council. Maps and line lists identifying the notified property owners are provided in the Petition in Attachment A - Christian Street Junction to Stevenson Substation Rebuild Project – Map Sheets.

Eversource is submitting this filing electronically and will deliver an original and 15 copies along with a check in the amount of \$625 for the required filing fee.

Sincerely,

Deborah Denfeld

Deborah Denfeld

Team Lead – Transmission Siting deborah.denfeld@eversource.com

Attachments

cc: George R. Temple, First Selectman, Town of Oxford Kenneth M. Kellogg, First Selectman, Town of Monroe



#### THE CONNECTICUT LIGHT AND POWER COMPANY

# doing business as EVERSOURCE ENERGY

PETITION TO THE CONNECTICUT SITING COUNCIL FOR A DECLARATORY RULING OF NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT FOR THE PROPOSED MODIFICATIONS TO THE EXISTING 1580 AND 1808 LINES IN THE TOWN OF OXFORD AND TOWN OF MONROE, CONNECTICUT

#### 1. Introduction

The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource" or the "Company") hereby petitions the Connecticut Siting Council ("Council") for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for proposed modifications to the 1580 and 1808 115-kilovolt ("kV") transmission lines, that occupy approximately 5.5 miles of an Eversource transmission line right-of-way ("ROW") that extends from (south of) Christian Street Junction in the Town of Oxford to (south of) Stevenson Substation, 1 Roosevelt Drive in the Town of Monroe, Connecticut, as described herein (the "Project"). Eversource submits that a Certificate is not required because the proposed modifications would not have a substantial adverse environmental effect.

#### 2. Purpose of the Project

The purpose of the Project is to rebuild approximately 5.5 miles of the 1580/1808 115-kV transmission lines within the existing ROW, beginning at a structure approximately 1200 feet south of Christian Street Junction in Oxford, to structures approximately 750 feet south of Eversource's Stevenson Substation in Monroe ("Project area"). The Project is part of the continuing Eversource effort to address aging transmission line facilities in the Devon-Towantic-South Naugatuck corridor.<sup>1</sup>

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<sup>&</sup>lt;sup>1</sup> This Project is similar is scope to work presented in Petitions 1527 and 1582, which are also in the Devon-Towantic-South Naugatuck corridor.

The proposed Project will replace the existing copperweld shield wire with optical ground wire ("OPGW") to provide improved communication ability and increased reliability as part of the Eversource fiber optic network build out. The copperweld shield wire has been identified by Eversource as susceptible to failure and in need of replacement. The existing aluminum conductor, steel reinforced ("ACSR") conductor wires are approaching their planned service life and are at greater risk of failure due to degradation and will also be replaced.

The 1580/1808 lines are supported on 29 double-circuit (painted steel) lattice tower ("DCLT") structures and 20 single-circuit (galvanized) steel monopoles ("SCSP"), located in a shared ROW with the 1619 (115-kV) Line.<sup>2</sup>

The proposed Project's modifications include replacements of six of the double-circuit monopoles with paired (12 total) single-circuit monopoles and replacements of 16 paired single-circuit monopoles with eight double-circuit monopoles on the 1580/1808 lines, as well as the addition of four new double-circuit monopole structures. All replaced and new structures will be galvanized steel monopole structures, matching the structure type and material of the 1619 Line.

Figure 1 illustrates the general location of the proposed Project.

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<sup>&</sup>lt;sup>2</sup> The 1580/1808 lines are in a shared ROW with the 1560 (115-kV) Line, south of the Stevenson Substation.

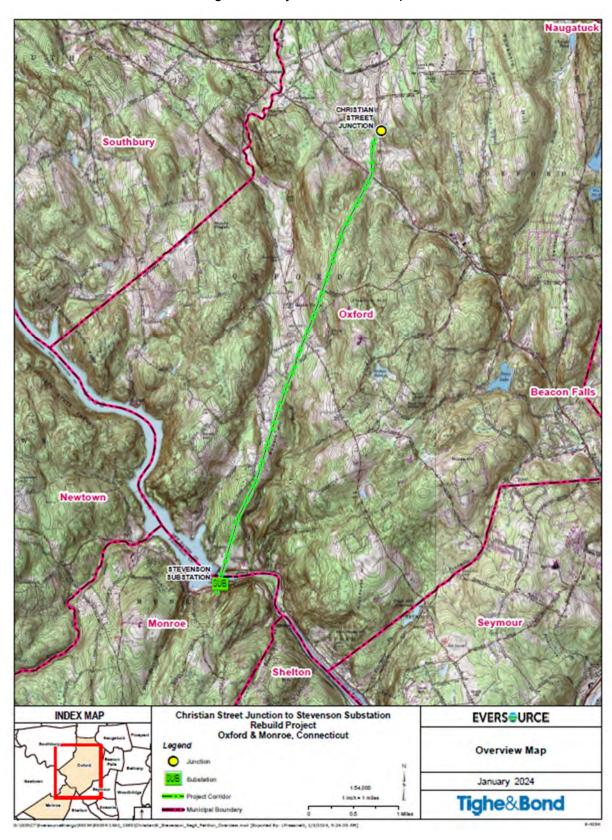


Figure 1: Project Overview Map

#### 3. Existing Project Area Description

The ROW was established in 1918. The 1580 Line was constructed in 1923, between Devon Substation (Milford) and South Naugatuck Substation (Naugatuck), with upgrades (structure replacements or line reconfigurations) in the Project ROW in 1962, 1969, and 2014. The 1808 Line was constructed in 1962, between The United Illuminating Company's Pootatuck Substation (Shelton) and Beacon Falls Substation (Beacon Falls), with some prior upgrades in the Project ROW (structure replacements or line reconfigurations).

The Project area<sup>3</sup> extends approximately 5.5 miles, from approximately 1,200 feet south of Christian Street Junction in the Town of Oxford, to approximately 750 feet south of Eversource's Stevenson Substation in the Town of Monroe, as shown on *Attachment A - Map Sheets*. Approximately 5.3 miles of the ROW is within the Town of Oxford, while approximately 0.2 mile is within the Town of Monroe, south of the Housatonic River crossing.

Along the ROW, the 1580 and 1808 lines are located on both Eversource-owned property and on private property subject to Eversource easements.

Christian Street Junction is the confluence of multiple transmission lines that extend in three directions. The Stevenson Substation also serves as an interconnection for the First Light hydroelectric power plant at the Stevenson Dam on the Housatonic River. The 1580 Line and the 1808 Line bypass (do not enter) the Stevenson Substation, whereas the 1619 Line and the 1560 Line terminate at Stevenson Substation.

The 1580/1808 transmission lines are supported on a combination of 29 DCLT structures, installed in 1962, and on 20 SCSP structures.

The conductor on the 1580 and 1808 lines is 795 kcmil ACSR, installed in approximately 1962. The shield wire on the 1580 Line is 11/32-inch copperweld. The 1808 Line has 3/8-inch copperweld shield wire. Both shield wires were installed in approximately 1962.

<sup>&</sup>lt;sup>3</sup> As referenced in the Petition, the "Project area" is synonymous with the existing facility "Site" described in RCSA §16-50j-2a (29); "site" is typically used to refer to a portion of the Project area, such as "work pads at structure and wire pulling sites", "Project work sites", and the Project construction staging area.

From south of Christian Street Junction along most of its length, the ROW is approximately 110 feet wide. Continuing south from a location approximately 1700 feet north of Eversource-owned property at Roosevelt Drive to Roosevelt Drive in Oxford, the ROW is approximately 150 feet wide. The ROW is not maintained edge to edge and the width of the maintained corridor varies along the ROW.

The 1580/1808 lines span the Housatonic River, a distance of approximately 1650 feet between the crossing structures.<sup>4</sup>

The ROW traverses through residential properties (including landscaped and driveway surfaces), undeveloped forest, and open space (Aggie Park). The ROW also crosses Connecticut Department of Transportation ("CTDOT") Route 67 (Oxford Road), Route 188 (Quakers Farm Road), Route 34 (Roosevelt Drive), local town roads and the Housatonic Railroad. The railroad is located on the south side of the Housatonic River, in the Town of Monroe, and is operated intermittently as a freight line. The Waterbury-Oxford Airport is located approximately 1-mile south of the ROW in Oxford.

# 4. Proposed Project Modifications

The Project scope consists of structure, conductor, and static wire replacements on the 1580 and 1808 lines for approximately 5.5 miles between just south of Christian Street Junction to just south of Stevenson Substation.

Beginning at Structure 1436 and continuing south to Structure 1398, all subsequent structures supporting the 1580 and 1808 lines, , will be replaced (49 structures).

To accommodate the new conductor and OPGW installations, a total of 35 double-circuit steel monopole ("DCSP") structures and 16 SCSP structures will be installed to support the 1580 and 1808 lines. Four additional DCSP structures will be installed on the 1580/1808 lines to remove the staggered alignment with the 1619 Line structures in the shared ROW to maintain electrical clearances during maintenance operations and high wind events. The 1580 and 1808 structures will be renumbered after the rebuild.

 $<sup>^4</sup>$  The 1580/1808 lines continue to two single line structures within a 200 feet wide ROW on the south of the Housatonic River, in Monroe.

Structures to be removed, replaced, and added include the following:

- Replace 23 DCLT structures with 23 DCSP structures.
- Replace six DCLT structures with 12 SCSP structures because these locations have a significant line angle and are needed for pulling conductor and OPGW.
- Replace 16 SCSP structures with eight DCSP structures, as tangent DCSPs are adequate to meet the clearance requirements of the ROW at these locations.
- Replace four SCSP structures with four SCSP structures.
- Install four additional DCSP structures.

With the proposed installation of 51 structures, the modified span lengths result in meeting current National Electrical Safety Code ("NESC") blowout clearance requirements in the Project area.

Galvanized steel poles will be used on this Project, instead of weathering steel, to provide visual consistency with the existing structures on the neighboring 1619 Line, which are galvanized steel structures.

Conductor work includes replacement of 5.5 circuit miles of 795 ACSR conductor on the 1580 and 1808 lines with "Falcon" 1590-kcmil aluminum conductor steel-supported ("ACSS") conductor.

Shield wire work includes replacement of 5.5 miles of 11/32-inch and 3/8-inch copperweld shield wire with OPGW on both lines.

In addition to the work described above, existing lightning arrestors would be transferred, and others installed as needed, such that arrestors would be present on approximately every fifth replacement structure at the completion of the Project. New hardware and insulators will be installed on all replacement and new structures, along with counterpoise.

The double-circuit steel lattice structures proposed to be replaced with two single-circuit monopoles are considered "dead-end" or "angle" structures. Typically, dead-end structures are located at right-of-way angle points and at reasonable distances to facilitate the rebuild

of the line. Eversource's current standard practice is to replace a double-circuit dead-end structure with single-circuit dead-end structures, one structure for each circuit.

Details of the proposed Project modifications are included in attached reference documents, as follows:

- Attachment A: Map Sheets Aerial view base maps which depict the locations of existing
  and proposed structures, as well as the approximate location and configuration of work
  pads and pull pads, access roads, and other Project elements to be used for the Project.
- Attachment B: Structure Table A list of specific structure information on the types and the heights of the existing and proposed structures.
- Attachment C: Typical Cross Sections Drawings which depict typical views along the ROW of the existing and proposed structures.

#### 4.1 Structure Heights

The height of the existing structures to be replaced ranges from 80 feet to 113 feet. The proposed replacement structures would range in height from 72 feet to 121.5 feet.

- Sixteen replacement structures would have reduced heights (or decreases between 1.5 feet and 34 feet), as compared with the corresponding existing structures.
- Twenty-five replacement structures would have height increases, from 1 foot to 40.5 feet, above the corresponding existing structures.
- Six single circuit replacement structures would be of the same height as their corresponding existing single-circuit structure.
- The four additional structures will range in height from 96.5 feet to 117 feet.

The average replacement structure height change (accounting for height increases and decreases) is 5.0 feet.

Typical good engineering practice is to gradually ascend and descend steep terrain to minimize suspension insulator swing and uplift during extreme weather. Several proposed

structures with greater height increases are located at the bottoms of hills, resulting in taller structures relative to the corresponding structure it is replacing.

Seven structures will have height increases between 20 feet and 31 feet, and one structure will have a height increase of 40.5 feet. The replacement structure with a height increase of 40.5 feet (19338) is being shifted approximately 180 feet from the existing structure (1432) location to an approximately 40-feet lower elevation. Three structures will have height decreases between 28 feet and 34 feet for similar reasons, where the replacement structure is located at a higher elevation than the location of the structure it is replacing.

#### 4.2 Structure Access

Access to the ROW will be from public road crossings and/or off-ROW access routes located between the ROW and nearby public roads. Where off-ROW access routes are pending easement approval, in-ROW access is depicted as an alternative for Project access needs.

# 5. Environmental Effects and Mitigation

The Project would be constructed entirely within Eversource's ROW or on Eversource fee owned property. No expansion of the existing ROW is proposed for the Project. The Project would not have a substantial adverse environmental effect for the reasons explained more fully below.

#### 5.1 Land Use

Land uses within and adjacent to the Project area include residential properties, transportation corridors (state and local roadways), municipal open space (Aggie Park), and undeveloped forest. Though the Project would traverse through these areas, the work will not impact adjacent land uses.

#### 5.2 Vegetation Removal

No tree clearing is proposed as part the Project, though selective tree removal may be necessary. Proposed vegetation removal within the ROW will include removal of incompatible vegetation outside the maintained corridor, including select tree removal, mowing of access roads, work pads and pull pad areas, removal of non-compatible tree species within the ROW and pruning of side vegetation. Eversource anticipates that any off-

ROW vegetation removal such as mowing, pruning and removal of hazard trees<sup>5</sup>, would be limited to overgrown access roads.

The majority of pruning and selective tree removal will be completed on foot by ground and climbing crews with chainsaws as needed. However, in some locations the use of mechanical equipment may be required to complete the work safely. As detailed on Project maps, temporary matting will be placed in wetlands for equipment access where needed.

# 5.3 Scenic, Recreational and Cultural Resources

The Project is not anticipated to have a substantial adverse impact to scenic, recreational, or cultural resources.

The Project will not cross or impact any designated scenic roadways<sup>6</sup>. Designated open space parcels, recreational use areas, and hiking trails within the Project area were identified through a desktop review of GIS ("Geographic Information System") data available from the Connecticut Department of Energy and Environmental Protection ("CT DEEP")<sup>7</sup>, Connecticut Forest and Park Association ("CFPA")<sup>8</sup>, the Town of Oxford's Parks website<sup>9</sup>, the Town of Monroe's Parks website<sup>10</sup>, and verified through field reconnaissance.

Adjacent public use recreational areas are limited to Aggie Park in the Town of Oxford, Town of Monroe Boat Launch on Lake Zoar, public access to the Housatonic River from south of the Stevenson Substation and the First Light operated hydroelectric dam (though no formal boat launch is present), and a CFPA trail (Paugussett Trail) located south of Stevenson Substation. Recreational use of these public areas would not be adversely affected by the Project activities. Eversource would notify CFPA of project activities and implement

<sup>&</sup>lt;sup>5</sup> Prior to the removal of any such trees located off-ROW, Eversource would obtain approval from the affected landowner.

<sup>&</sup>lt;sup>6</sup> Connecticut Department of Transportation, December 31, 2020 Connecticut State Scenic Roads. Available URL: <a href="https://portal.ct.gov/DOT/Programs/Connecticut-Scenic-Roads">https://portal.ct.gov/DOT/Programs/Connecticut-Scenic-Roads</a>.

<sup>&</sup>lt;sup>7</sup> Connecticut Department of Energy and Environmental Protection, GIS Data URL: <a href="https://portal.ct.gov/DEEP/GIS-and-Maps/Data/GIS-DATA">https://portal.ct.gov/DEEP/GIS-and-Maps/Data/GIS-DATA</a>

<sup>&</sup>lt;sup>8</sup> Connecticut Forest & Park Association URL: <a href="https://www.ctwoodlands.org/">https://www.ctwoodlands.org/</a>

<sup>&</sup>lt;sup>9</sup> Town of Oxford, Parks and Recreation URL: <a href="https://oxfordct.myrec.com/info/facilities/default.aspx">https://oxfordct.myrec.com/info/facilities/default.aspx</a>

<sup>&</sup>lt;sup>10</sup> Town of Monroe, Parks and Recreation URL: https://monroect.myrec.com/info/default.aspx

requested protection measures during the time that Eversource uses the overlapping access road / public hiking trail.

A Phase 1A Cultural (archaeological and historical) Resource Assessment of the proposed Project area was conducted by Heritage Consultants, LLC ("Heritage") in 2021. The review consisted of an initial desktop resource review and pedestrian survey ("Phase 1A Cultural Resource Assessment" or "Phase 1A"). The desktop review of recorded cultural resources was refreshed in February of 2023. Updated Project details (e.g., proposed work activities) were provided to Heritage in November 2023. Final Phase 1A assessment results are detailed in its revised report dated December 5, 2023.

The Phase 1A desktop evaluation determined that there is one listed structure documented in the National Register of Historic Places and five listed structures documented in the State Register of Historic Places within 500 feet of the Project area. No previously identified archaeological sites were identified within 500 feet of the Project area. Due to topography, intervening vegetation, and the positions of the proposed structures relative to the documented historic places, Heritage concluded that there would not be an adverse impact to the viewshed of the documented National and State Historic Places.

Based upon the presence of qualifying criteria (i.e., identification of areas that are likely to contain and/or retain archaeological deposits), the Phase 1A identified various locations within the ROW as having a moderate to high potential for archaeological sensitivity, thus prompting further investigation via the execution of a Phase 1B survey.

The Phase 1B survey consisted of shovel testing in select locations, which was completed in August 2021. The Phase 1B investigation resulted in reclassification of all moderate/high sensitivity areas as having no/low sensitivity where no further archaeological investigation was recommended. Results of the Phase 1B survey are detailed in Heritage's revised reported dated November 2023. The results were provided to the State Historic Preservation Office ("SHPO") and the Tribal Historic Preservation Offices ("THPO") of the Connecticut Tribe of Mohegan Indians, the Mashantucket Pequot Tribal Nation, and the Wampanoag Tribe of Gay Head for their review. Eversource received a 'no affect' concurrence letter for the Project from SHPO on February 2, 2024. Any written responses from the THPOs will be provided to the Council by Eversource upon receipt.

# 5.4 Water Resource Areas

Water resources within the Project area include inland wetlands, watercourses (perennial and intermittent streams), ponds, and Federal Emergency Management Agency ("FEMA") Flood Zones. Eversource conducted field delineations of wetlands and water resources in the Project area in September of 2020 and March of 2021. Wetland boundaries were reinspected and modified on Project mapping as needed in 2023 (*Attachment D*: Wetland and Watercourse Delineations – Technical Memorandum).

Project work activities will result in both permanent and temporary impacts to water resource areas. All Project work in or near these water resource areas would be conducted in accordance with Eversource's April 2022 Construction & Maintenance Environmental Requirements - Best Management Practices Manual for Massachusetts and Connecticut ("BMPs") and the Project specific 'Stormwater Pollution Control Plan' ("SWPCP") that Eversource would develop for the Project under the CT DEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("General Permit"). The Project is eligible for the Self Verification through the U.S. Army Corps of Engineering ("USACE"). Required forms and materials will be submitted to the USACE and the CT DEEP prior to start of construction. Work activities will meet all applicable terms and special conditions of the Department of the Army Regional General Permits for the State of Connecticut and State of Connecticut 401 Water Quality Certification. Additional details on each of these water resource areas are provided below.

#### 5.4.1 Wetlands

Wetlands located within the Project area were identified and delineated in accordance with industry standard methodology. A total of 24 wetlands are located within or proximate to the Project area.

Permanent impacts will result from the installation of a hard bottom (stone ford) wetland crossing (W9), (Attachment A - Map Sheet 4), which would impact approximately 640 square feet (0.015 acre) of the wetland.

Temporary impacts (1.62 acres) will result from the use of construction mats for access roads, pull pads and work pads and for access to remove vegetation. All construction mats will be promptly removed upon completion and wetland areas will be restored in accordance

with Eversource's BMPs. Table 1 below provides a summary of Project effects to wetlands and watercourses.

#### 5.4.2 Watercourses and Waterbodies

A total of 13 watercourses have been identified and delineated within or proximate to the Project area. Named perennial watercourses include Little River, Sevenmile Brook, Eightmile Brook, and the Housatonic River. No permanent or temporary impacts to these watercourses are proposed. A new in-ROW access road will be located off of Hogs Back Road in Oxford. It will include a permanent culvert crossing of an intermittent stream (S4) which will impact approximately 20 square feet (0.001 acre) of the stream. Other watercourses within the Project area would be spanned with temporary matting where needed.

Existing stormwater culverts and drainage swales will be crossed along access roads at various locations throughout the Project area. They would be protected and/or stabilized in accordance with the Project's Stormwater Pollution Control Plan and Eversource's BMPs.

Table 1 Summary of Project Effects to Wetlands and Watercourses				
Wetland /	Attachment A	Wetland/Watercourse Effects (square feet / acres)		
Watercourse ID	- Map Sheet	Temporary	Permanent	
W2	1	715 / 0.01		
W3	1	8,704 / 0.19		
W4	1,2	8,183 / 0.18		
W5	2	7, 625 / 0.17		
W6	2	457 / 0.01		
W9	4	6,671 / 0.15	640 / 0.015	
S4	4		20 / 0.001	
W11	4	2,461 / 0.05		
W12	5	11,672 / 0.26		
W13	5	3,715 / 0.08		
W16	5	907 / 0.02		
W17	6	1,149 / 0.02		
W18	6	5,871 / 0.13		
W19	7	750 / 0.01		
W20	8	2,867 / 0.06		
W22	9,10	9,543 / 0.21		
Total		70,575 / 1.62	680 / 0.016	

#### 5.4.3 Vernal Pools

The Project area was surveyed for potential vernal pools in late 2020 and spring 2023. Potential vernal pools were identified based on the presence of suitable hydrology (i.e., evidence of seasonally to permanently flooded wetlands) and the presence of other indicators such as concave and unvegetated surfaces. The Project also assessed potential vernal pool habitat during the spring of 2023. The spring assessment methods included visual surveys to identify adults, larvae and egg masses, audial surveys of amphibian chorusing, and dip-net surveys to identify vernal pool species larvae.

One decoy vernal pool was identified within wetland W22. The decoy vernal pool habitat has developed because of heavy usage of all-terrain vehicles ("ATVs") within this portion of the

ROW and is characterized as a large, shallow, basin-shaped depression that is largely devoid of vegetation. While wood frog and American toad tadpoles were observed within shallow ponded areas, it was determined that it did not support characteristics necessary for successful vernal pool species breeding.

#### 5.4.4 FEMA Flood Zones

The Project crosses FEMA-designated flood zones associated with the Little River and Eightmile Brook in Oxford as well as the Housatonic River along the municipal boundaries of Oxford and Monroe. Existing angle structure 1434 will be replaced within the floodplain of Little River. Due to the structure location, the replacement structures cannot be moved out of the floodplain. No other transmission structures are proposed within FEMA flood zones. Proposed temporary fill would be limited to placement of a matted access road within the 100-year flood zone of Eightmile Brook and matted access roads and work pads within the floodway and 100–500-year flood zones of Little River. Temporary mats, construction materials and equipment would be properly secured where placed within the flood zone and will be removed from the flood zone immediately upon completion of construction. Proposed activities would not adversely affect the flood storage capacity or hydraulic characteristics of the FEMA flood zones and are eligible for self-verification under the General Permit.

#### 5.4.5 Water Supply

Based on Aquifer Protection Area ("APA") mapping maintained by the CT DEEP, no APAs extend into the Project area or off-ROW access roads for the Project. The Project area is not within a public water supply watershed and does not cross any public water supply reservoirs or public water supply wells.

#### 5.5 Habitat and Wildlife

The Project area extends through a variety of habitats that support vegetation and wildlife that is common to maintained transmission line corridors. Habitats include upland and wetland shrubland and meadow, riparian corridors, active and fallow agricultural land, and unvegetated or sparsely vegetated ledge outcroppings.

CT DEEP Natural Diversity Database ("NDDB") mapping depicts known or potential occurrences of state-listed endangered, threatened, or special concern species in the vicinity of the Project area. Eversource submitted a NDDB State-listed Species Review Request to the CT DEEP for the Project on April 26, 2023. Eversource received a preliminary determination from CT DEEP on July 3, 2023, which requested biological surveys for additional listed species. Eversource completed the required surveys and submitted assessment results to CT DEEP as of December 18, 2023. A final NDDB Determination for the Project has not yet been received. Eversource will adhere to the recommendations for protection of listed species as provided by CT DEEP.

In addition to coordinating with the NDDB for the protection of state-listed species, Eversource consulted with the U.S. Fish & Wildlife Service's ("USFWS") Information, Planning, and Consultation ("IPaC") service regarding federal-listed species that may be present within the Project area. The IPaC report indicated one federally listed threatened species, Northern Long-eared Bat ("NLEB"), and one candidate species, monarch butterfly, may potentially be found in proximity to the Project area.

NLEB roosts in certain trees in the warmer months of the year and at other times hibernates in caves and mines (bat "hibernacula"). However, according to the NLEB Areas of Concern in Connecticut map (dated March 6, 2019), there are currently no known NLEB maternity roost trees in Connecticut and no known NLEB hibernacula in the Towns of Oxford or Monroe. Further, there have been no observations of NLEB in Oxford or Monroe as detailed on the Connecticut Northern Long-eared bat Observations by Town map, dated July 24, 2023. Therefore, no impacts to this species are anticipated and the USFWS has determined the Project would have no effect on NLEB.

Utility corridors provide linear habitat for monarch butterflies and other pollinators. While the monarch butterfly is identified as a candidate species, it is not yet federally listed or proposed for listing. As detailed in the USFWS Environmental Conservation Online System <sup>11</sup>, consultation with USFWS under section 7 of the Endangered Species Act is not required for candidate species. Further, gravel work pad restoration in sensitive areas (e.g., NDDB areas,

<sup>&</sup>lt;sup>11</sup> USFWS, Environmental Conservation Online System URL: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>

etc.) will be seeded with a CT DEEP approved seed mix that includes pollinator-friendly native vegetation, such as milkweed. As such, no impact to this species is anticipated.

Portions of the ROW are within known habitat for the New England Cottontail ("NEC"). During Project restoration, Eversource would incorporate additional habitat enhancements within sensitive areas (e.g., NEC Focus Areas, etc.). These enhancements would include reducing the size of gravel work pads where feasible and restoring gravel work pads (partially or entirely) with either stockpiled native topsoil or fine processed stone and seeding with a mix of native grasses and forbs to minimize potential effects in accordance with Eversource's 2021 New England Cottontail BMPs.

#### 5.6 Invasive Plant Species

Invasive plant species exist within the Project area. The Project would adhere to Eversource's BMPs to minimize the disturbance and spread of soil and/or plant matter, including the following to control the potential spread of invasive species:

- Clean vehicles, equipment, materials (including matting), gear, footwear or clothing of all visible soil and plant material on site in the infested area, or as near as practical to the infested area, prior to leaving the Project site.
- Cleaning may be accomplished using a brush, broom, or hand tools, by shaking or dropping mats in a controlled manner to dislodge attached soil and debris or using compressed air.

#### 5.7 Visual Effects

Though the Project would result in some change to the visual character of the transmission lines, Eversource believes that the replacement of the lattice structures with a monopole design and proposed structure alignments across the ROW<sup>12</sup>, including the four additional monopole structures, would result in a more streamlined appearance in the ROW.

 $<sup>^{12}</sup>$  Structure alignment across the ROW between the 1619 Line structures and the proposed 1580/1808 line structures may vary somewhat due to terrain conditions or the presence of wetlands.

All replacement structures are proposed to have a galvanized finish, to match the finish of the existing 1619 Line structures. Additionally, the proposed structure heights on the 1580/1808 lines are similar to the structure heights of the corresponding 1619 Line structures.<sup>13</sup>

# 5.8 Air Quality

Short-term, localized effects on air quality may result from the Project work, primarily from fugitive dust and equipment emissions. To minimize the amount of dust generated by construction activities, the extent of exposed/disturbed areas at any one time would be minimized. Vehicle emissions will be limited by requiring contractors to properly maintain construction equipment and vehicles, and by minimizing the idling time of equipment and vehicles, including diesel construction equipment, in accordance with Connecticut regulatory requirements. Temporary gravel tracking pads would be installed at points of construction vehicle ingress/egress to minimize the potential for equipment to track dirt onto local roads. To further minimize dust, water may be used to wet down disturbed soils or work areas with heavy tracking, as needed.

#### 5.9 Noise

Project work would result in short-term and localized noise from construction activities. The temporary increase in noise would likely raise localized ambient sound levels immediately surrounding the work areas due to the operation of standard types of construction equipment (e.g., backhoe, bulldozer, drill rig, excavator mounted rock hammer, crane, trucks, etc.). <sup>15</sup> Upon completion of construction and during operation of the transmission lines, the proposed Project would not impact ambient noise levels.

#### 5.10 Radio and Television Interference

 $^{\rm 13}\,$  The 1619 Line structures within the Project ROW range in height from 75 feet to 103 feet.

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<sup>&</sup>lt;sup>14</sup> Regulations of Connecticut State Agencies (RCSA) Section 22a-174-18(b)(3)(C) prohibits the idling of motor vehicles for more than three consecutive minutes when not in motion.

<sup>&</sup>lt;sup>15</sup> Construction noise is exempted under the Connecticut regulations for the control of noise, RCSA §22a-69-1.8(g).

The project would not increase radio or television interference from the operation of the modified transmission facilities.

# 5.11 Electric and Magnetic Fields

Eversource prepared calculations of the existing and post-Project electric and magnetic fields ("EMF"). The calculations were based on average annual loading conditions, as these are most representative of typical operating conditions. The calculations are made relative to the centerline of the proposed, modified transmission lines.

Table 2 and Table 3 summarize the modeled electric and magnetic fields at the ROW edges before and after the proposed Project modifications within the narrowest part of the ROW which is 110-feet wide. Due to attenuation of the fields, the readings at the edge of the 150-feet wide and 200-feet wide sections of the ROW are expected to be even lower.

Table 2 Summary of Calculated Magnetic Fields ( <u>mG)</u> (based on Average Annual Loads)				
	Left Edge of ROW	Max in ROW	Right Edge of ROW	
Christian Street Junction	Existing	8.8	26.7	18.2
– Stevenson Substation	Proposed	6.7	25.2	17.1

Table 3 Summary of Calculated Electric Fields (kV/m) (based on Average Annual Loads)				
	Left Edge of ROW	Max in ROW	Right Edge of ROW	
Christian Street Junction	Existing	0.46	0.77	0.27
<ul><li>Stevenson Substation</li></ul>	Proposed	0.37	0.84	0.25

The results of the calculations provided in *Attachment E*: EMF Graphs show that the proposed modifications would decrease EMF at the edge of the ROW.

The anticipated field strength for both electric and magnetic fields from the proposed modifications are well below the internationally established exposure limits for 60-Hz electric and magnetic fields, specifically, the limits identified by the International Council on Electromagnetic Safety ("ICES") and the International Council on Non-Ionizing Radiation Protection ("ICNIRP"). These thresholds are summarized in Table 4 below.

Table 4				
International Guidelines for EMF Exposure				
	Electric Field Magnetic Field			
	(kV/m)	(mG)		
ICES	5	9,040		
ICNIRP	4.2	2,000		

#### 5.12 Federal Aviation Administration

Eversource filed a Notice of Proposed Construction or Alteration with the Federal Aviation Administration ("FAA") in accordance with the recommendations of the FAA's online Notice Criteria Tool for all 51 proposed structures, and the line span over the Housatonic River. The FAA's response to Eversource is pending.<sup>16</sup>

# 6. Construction Traffic Management

Construction-related vehicles would utilize public roads in the Project area to access the ROW. However, Project-related traffic will be temporary and is generally expected to be more localized in the vicinity of the ROW access points and at the staging area described in the following section.

To safely move construction vehicles and equipment onto and off the ROW while minimizing disruptions to vehicular traffic along public roads, Eversource or its Project contractor would work with the affected towns and CTDOT to develop and implement traffic management

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 $<sup>^{16}</sup>$  FAA may require the installation of marker balls on the conductors across the span of the Housatonic River.

procedures, as needed.<sup>17</sup> The construction contractor typically would be responsible for posting and maintaining construction warning signs along public roads near work sites and for coordinating the use of flaggers or police personnel to direct traffic, as required.

Due to the phasing of construction work, these Project-related traffic movements are not expected to significantly affect transportation patterns or levels of service on public roads.

Construction vehicles and equipment associated with the work would include, but would not be limited to, pickup trucks, bucket trucks, flat-bed trucks, excavator, concrete trucks, drill rigs, front loaders, reel trailers, bulldozers, woodchippers, brush hogs/mower, forklifts, side booms, dump trucks and cranes. Pullers and tensioners would be used for the line work.

#### 7. Construction Activities and Sequence

Project construction would include the following activities:

#### 7.1 Establishing Staging Area/Laydown Yards

Eversource proposes to use two previously established staging area/laydown yards for the Project. The Division Street, Derby yard is approximately 3.45 acres and would be used to store construction equipment and materials, (including tools, and supplies) conductor, insulators, hardware, poles, and construction mats for the Project. The Bic Drive, Milford staging area/laydown yard is approximately 1.7 acres and would be used for office trailers and may also be used to store construction equipment and materials. Transmission line components removed during the work (structure steel, conductor, hardware, and insulators) also may be temporarily stored prior to removal off-site for salvage and/or disposal. The staging area/laydown yards may also be used by construction crew members for parking personal vehicles as well as for construction vehicles, and for performing minor maintenance, when needed, on construction equipment. Erosion and sedimentation ("E&S") controls would be installed and maintained until completion of the work in accordance with Project permits and Eversource's BMP's. (Refer to Figures 2 and 3 below.)

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Eversource is coordinating with CTDOT for overhead line pull crossings of state routes; at Route 67 (Oxford Road), Route 188 (Quakers Farm Road), and Route 34 (Roosevelt Drive).

ACCESS FROM DIVISION STREET STAGING AREA/MATERIAL LAYDOWN YARD (+/-3.45 ACRES) DIVISION STREET Floodway ACCESS ROAD MUST BE KEPT CLEAR WITH NO MATERIALS TO BE STORED ON ROAD THAT WOULD RESTRICT ACCESS STREE MAIN STREET INDEX MAP **EVERS**URCE Legend FEMA 100-Year Flood Zone --- Railroad Natural Diversity Proposed Staging Area/Material Laydown Yard Christian Street Junction to Stevenson Substation Rebuild Project Division Street, Derby, Connecticut = Existing Access (Dec 2022) Approximate
Wetland (not Watercourse (not delineated) (Dec 2022) Staging
Area/Material
Laydown Yard
(±3.45 acres total) delineated) December 19, 2023 1:3,600 1 inch = 300 fee Tighe&Bond 0 100 200 Feet

Figure 2: Staging Area/Laydown Yard - Division Street, Derby



Figure 3: Staging Area/Laydown Yard - Bic Drive, Milford

#### 7.2 Vegetation Removal

No tree clearing would be required for the Project. Vegetation removal work would be accomplished using mechanical methods or by hand. Mechanical methods would typically require use of flat-bed trucks, mowers, brush hogs, or other types of mowing equipment, skidders, forwarders, bucket trucks for canopy trimming, and chippers. In resource sensitive areas, Eversource would require the contractor to use low-impact methods to remove brush vegetation to protect wetlands, watercourses and state-listed species and their habitats, Low-impact methods incorporate a variety of approaches, techniques, and equipment to minimize site disturbance. Eversource would require the contractor to use some or all of the following low impact methods, depending on specific considerations of the work area:

- Consider soil and weather conditions when scheduling vegetation removal activities such as during periods of heavy rainfall;
- Maximize the use of uplands for clearing access routes;
- Utilize hand clearing methods for vegetation removal work within sensitive wetland and vernal pool areas;
- Use appropriately sized equipment for site conditions, where possible, to minimize impacts; and
- Where practical, cut brush close to the ground, leaving root systems and stumps, to retain soil stability.

Temporary construction mats would be used to provide a stable base for low-impact equipment to cross watercourses or wetlands. Such temporary mats would minimize disturbances to wetland soils, and the mats would be removed after the vegetation removal was completed.

#### 7.3 Soil Erosion and Sediment Control Installation

Project construction activities would conform to Eversource BMPs for E&S control, including those provided in the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* ("Connecticut Guidelines") and the Project specific SWPCP.

Typical E&S control measures include, but are not limited to, straw blankets, straw bales, silt fencing, rock construction entrances, soil and slope protection, water bars, check dams, berms, swales, and plunge pools (avoiding plastic netted controls). Silt fence would be installed as needed to intercept and retain sediment and/or construction materials from disturbed areas and minimize the potential for sedimentation outside of the Project and staging areas.

Temporary E&S control measures will be installed prior to any site work and would be maintained and inspected for the duration of the Project to ensure their integrity and effectiveness and for compliance with the General Permit. SWPCP inspections would be performed in accordance with the General Permit requirements. Protection measures include but are not limited to contractor training and education, time of year best management practices, monitoring, and installation of exclusionary features as directed by qualified individuals. Following construction, seeding and/or mulching or hydroseeding would be completed to permanently stabilize the areas disturbed by construction activities. Temporary E&S control measures would remain in place until the Project work is complete, and all disturbed areas are stabilized.

#### 7.4 Access Roads and Work Pads

The Project will use existing access roads to the extent possible. A permanent hard bottom ford is proposed through a portion of a wetland (W9) to establish a continuous access road. Additionally, the Project would include installation of a 20-foot-long culvert within an intermittent stream for improved in-ROW access from Hogs Back Road. The proposed hard bottom ford and culvert installation are depicted on Attachment A – Map Sheet 4.

Temporary construction matting would be used in wetlands as well as in other sensitive areas, such as NDDB areas and residential lawns, to the greatest extent practicable.

Existing access roads may need to be improved (graded, widened, and/or reinforced) with additional material (gravel or matting if in an NEC area) to accommodate the safe passage of construction vehicles and equipment. New permanent access roads within the Eversource ROW would be limited to upland areas. Typically, the maximum travel surface of an access road is approximately 16 feet wide (additional width may be needed at turning or passing

locations). E&S controls would be installed as necessary before the commencement of any improvements to or development of access roads.

Existing gates, pole barriers and signage are currently used to discourage ATVs from accessing the ROW. It is Eversource's standard work practice for work crews to close and lock all gates at the end of the workday. If new access points do not have gates or pole barriers, Eversource will install one of these accessories upon request by the property owner during and/or after construction.

At each transmission line structure location, a work pad is required to create a safe, level work base for construction and to stage material and equipment for final on-site structure assembly and/or removal. The approximate locations and configuration of the work pads are shown on Attachment A.

The proposed work pads have been minimized to the extent practical but vary in size to accommodate activities needed for both installation of new structures and removal of existing structures. Pull pads would have dimensions of approximately 80 feet wide by 120 feet long but may vary due to terrain. Work pads would be graveled, though temporary matting would be utilized to protect sensitive areas (e.g., wetlands and watercourses, lawn areas, etc.).

To facilitate future transmission line maintenance, gravel access roads, work pads and pull pads would be left in place. Gravel work pads within NDDB and NEC areas would be revegetated with a CT DEEP approved native seed mixture. If an individual property owner requests restoration measures, the Project representatives will work with the property owner on options.

Stone walls located in property owner-maintained areas that are within proposed access roads and work pads will be dismantled, stones placed in-ROW outside of active work zones, and restored to original condition following construction, unless otherwise directed by the property owner.

Rubble stone walls located outside of property owner-maintained areas that are within proposed access roads and work pads will be dismantled and stones will either be utilized for partial wall restoration, left in the ROW, or removed and disposed of offsite, to provide unobstructed access, unless otherwise directed by the property owner.

#### 7.5 Foundation Installation

Structures would have either direct-embed or drilled caisson foundations.

The foundation installation work would require the use of equipment such as mechanical excavators (drill rigs), pneumatic hammers, augers, drill rigs, dump trucks, concrete trucks, grapple trucks, cranes, and light duty trucks. If groundwater is encountered, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas. The water would then be discharged in accordance with applicable local, state, and federal requirements, the General Permit and Eversource's BMPs.

Excavated soils that are generated during construction activities would not be temporarily stored or stockpiled in wetlands, floodways, or watercourses. Temporarily stored or stockpiled soils will be managed during restoration activities (Section 7.9).

#### 7.6 Structure Installation

Structure sections, structure components and hardware would be delivered to the individual structure locations using flat-bed trucks and assembled on-site using a crane, bucket trucks and excavator.

Depending on site-specific soil conductivity, supplemental grounding (counterpoise, in uplands only) would be installed. A quad "ditch-witch" plow-cable trencher, or equivalent/similar type of equipment, would be used to install the counterpoise after the proposed structures are constructed.

#### 7.7 Conductor / OPGW Installation and Removal

The installation of the new conductors and OPGW would occur after the new structures have been erected. The equipment required for these activities would include wire reels, compressors, conductor pulling and tensioning rigs, guard trucks or structures and bucket trucks. The removal of the conductor and shield wire would take place during the active installation of the new conductor and OPGW as the existing conductor and static wire would be used as pulling lines, if possible.

Helicopters may also be used for the work. In the event helicopters are used, advanced notification to affected municipalities and property owners would be provided. Bat wing trucks and guard trucks would be used for protection of roads during the line work.

#### Line Work over the Housatonic River

Prior to wire pulling activities over the Housatonic River, Eversource will coordinate with the Towns of Oxford and Monroe, and the CT DEEP to notify the public, specifically recreational boaters of the wire pulling activity across the river. The closest public boat launch site, managed by the Town of Monroe, is west of the transmission line ROW, in the Lake Zoar upstream dam area, and therefore would not be affected by the construction zone during any wire pulling activities on the downstream side of the dam. In addition, Eversource proposes to post "CAUTION: ACTIVE CONSTRUCTION ZONE OVER RIVER" signs along the Housatonic River in the vicinity of the overhead wire crossing. Eversource also plans to provide advance notice to the abutting property owners.

Precautions will be taken when installing the conductor and OPGW at the river crossing to avoid contact with water (and adjacent ground surfaces) throughout the pulling activity. These include the use of "traveler blocks" (a series of pulleys) and hardline or rope. The typical conductor and OPGW installation process is as follows:

- 1. The existing shield wire and existing conductor will be unclipped from the existing structures and transferred to the new structures and placed in blocks.
- 2. "Traveler blocks" will be installed at each replacement structure and to the existing structures that are not going to be replaced so that the wire can be pulled.
- 3. The existing shield wire will be connected to a rope and pulled out while pulling in a hardline or rope at the same time. The new OPGW will be connected to the hardline or rope and pulled into position with the use of a Tensioner to keep the OPGW from sagging while pulling.
- 4. The existing conductor will be connected to a rope and pulled out while pulling in a hardline or rope at the same time. The new conductor will be connected to the hardline and then pulled into position with the use of a Tensioner to keep the conductor from sagging while pulling.
- 5. After the OPGW and new conductor are pulled into position, the traveler blocks will be removed and the OPGW will be clipped in.

#### 7.8 Structure Removal

The existing structures would be removed after the installation of the new structures, the new conductor, and the OPGW is complete. The existing poles/lattice steel and hardware would be removed from the ROW and reused, recycled, or otherwise disposed of properly.

# 7.9 Restoration

After construction is completed, Eversource would perform ROW restoration in accordance with the protocols specified in the Project permits, BMPs and in consultation with property owners affected by the Project construction.

Post-construction restoration of the ROW would include the removal of construction debris, signage, flagging, and temporary fencing, and temporary construction mats. Disturbed areas would be restored as practical and stabilized with vegetation or other measures before removing temporary E&S controls. Surface restoration of the overlapping CFPA Paugussett Trail and project access road in Monroe would be implemented.

Excavated soils from the Project that cannot be used as backfill in the vicinity of where they were excavated would be used for the restoration of gravel work pads in the same area, as necessary to fulfill any commitments to landowners, or regraded into adjacent uplands within the ROW and stabilized in accordance with Eversource BMPs. Any excavated soils that cannot be reused in such a manner would be properly managed off-Site in accordance with Eversource BMPs and applicable law.

For work within environmentally sensitive areas, such as NEC focus areas and NDDB areas, work pad restoration measures will be implemented to mitigate impacts, which includes the amendment of the work pad surface with stockpiled topsoil or fine processed gravel (whichever is applicable), application of a native seed mix, and installation of temporary erosion and sediment controls (e.g., straw mulch, and environmental controls with no plastic netting to limit wildlife entanglement, compost filters, biodegradable erosion control blankets, etc.), which will be regularly inspected and maintained until final stabilization has been achieved.

#### 7.10 Waste Management

Waste materials, such as structure components (i.e., steel from the removed structures, conductor, shield wire, associated hardware, etc.) and any other construction debris would be reclaimed through the Eversource Investment Recovery System and/or disposed of in accordance with Eversource's BMPs, applicable regulations or recycled consistent with applicable rules and regulations and Eversource policies.

#### 8. Construction Schedule and Work Hours

Construction work hours would typically be between 7:00 AM and 7:00 PM, six days per week (Monday through Saturday). Construction workers may arrive at and leave the staging/laydown area outside of these times. In addition, during winter, snow plowing and de-icing activities will typically commence, when necessary, prior to 7:00 AM to ensure a safe environment for construction personnel prior to the start of the workday. On occasion, Sunday work hours are anticipated to be required. If Sunday work hours are required, Eversource will provide advance notice to the Siting Council, the affected Town, and abutters.

# 9. Municipal and Property Owner Outreach

Eversource consulted with the towns of Oxford and Monroe in October 2023 to provide an initial briefing of the proposed Project. An in-person presentation was later provided to the Town of Oxford in November 2023 and an in-person meeting with the Town of Monroe was held in December 2023 to review Project details and proposed structure locations. Town officials expressed no concerns with the Project. In addition to providing a written notice of the Petition filing, Eversource will continue to communicate with municipal officials throughout the Project.

Eversource initiated outreach to property owners in Fall 2023. Beginning in October 2023, Eversource conducted door-to-door outreach to property owners located along the ROW. In conjunction with the submission of this Petition, all abutting property owners were notified of the filing and provided details on how to obtain additional information on the Project, as well as how to submit comments to the Council. Eversource continues to meet and work with affected property owners to address concerns and provide reasonable mitigation options when feasible.

Eversource representatives will provide advance notification of the start of construction activities to abutting property owners and will update property owners throughout the phases of construction and restoration.

#### 10. Conclusion

Based on the foregoing, Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment, nor would they damage existing scenic, historical, or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications would have no substantial adverse environmental effect.

Communications regarding this Petition for a Declaratory Ruling should be directed to:

Deborah Denfeld

Team Lead - Transmission Siting

**Eversource Energy** 

PO Box 270

Hartford, CT 06141-0270 Telephone: (860) 728-4654

By:

Deborah Denfeld

Team Lead - Transmission Siting deborah.denfeld@eversource.com

#### **List of Attachments**

Attachment A: Map Sheets Attachment B: Structure Table

Attachment C: Typical Cross Sections

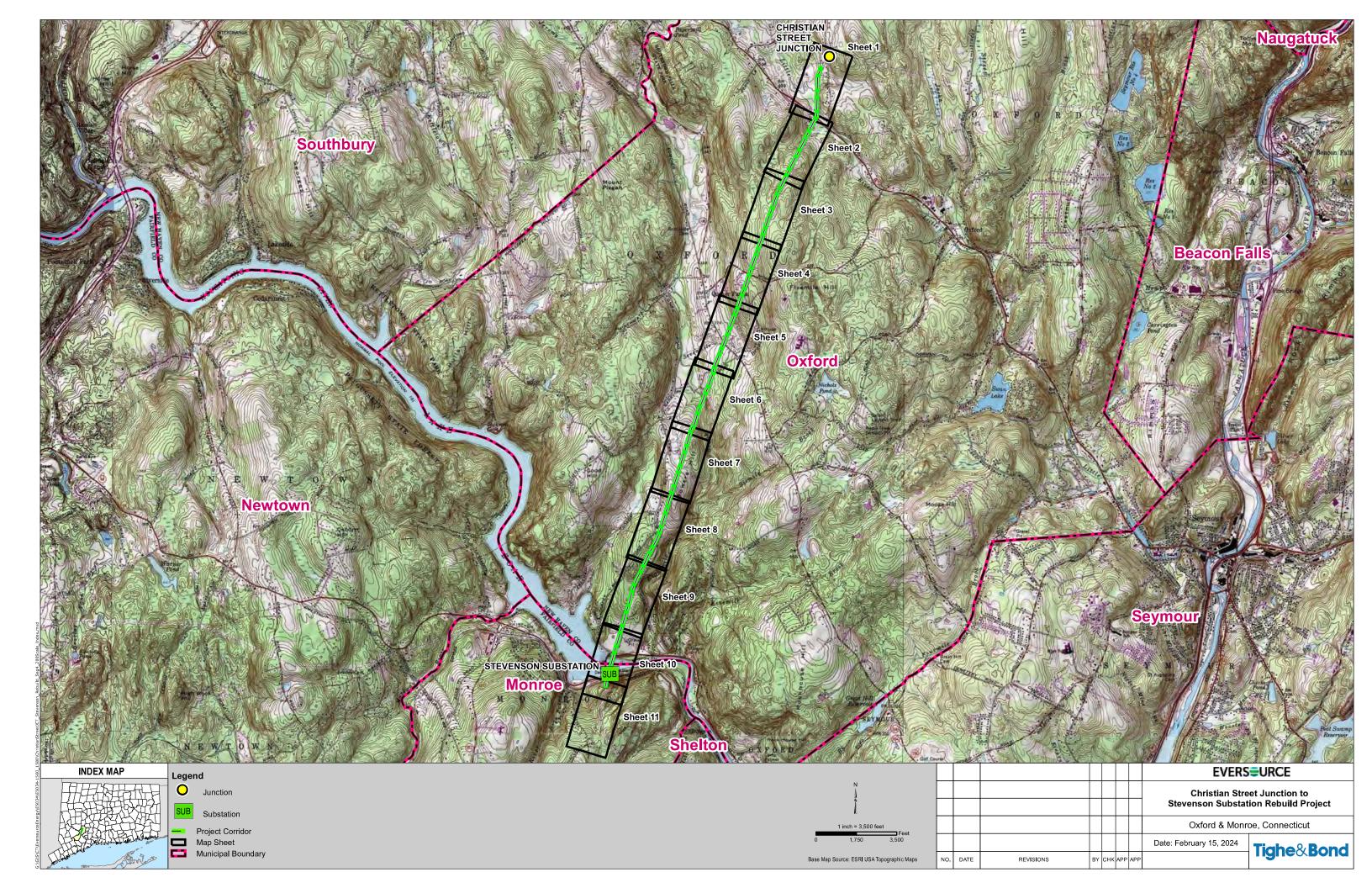
Attachment D: Wetland and Watercourse Delineations - Technical Memorandum

Attachment E: EMF Graphs

Attachment F: Letter to Abutters and Affidavit

# Attachment A

# Map Sheets



# Mapsheet 1 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

# **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NEC Focus Area
- Residential
- Undeveloped, forest
- Floodway
- 100-Year Flood Zone
- 500-Year Flood Zone
- Little River (S2)

# **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

# Water Resources

- Wetland W1, W2, W3, W4
- Wetland Cover Types Scrub-Shrub, Emergent
- Watercourses S1, S2 (Little River)

# Wetland and Watercourse Crossings

- W2, W3
- S1, S2 (Little River)

# Right-of-Way Vegetation

- Scrub-Shrub wetland
- Scrub-Shrub upland
- Emergent wetland
- Residential landscaping
- Pasture

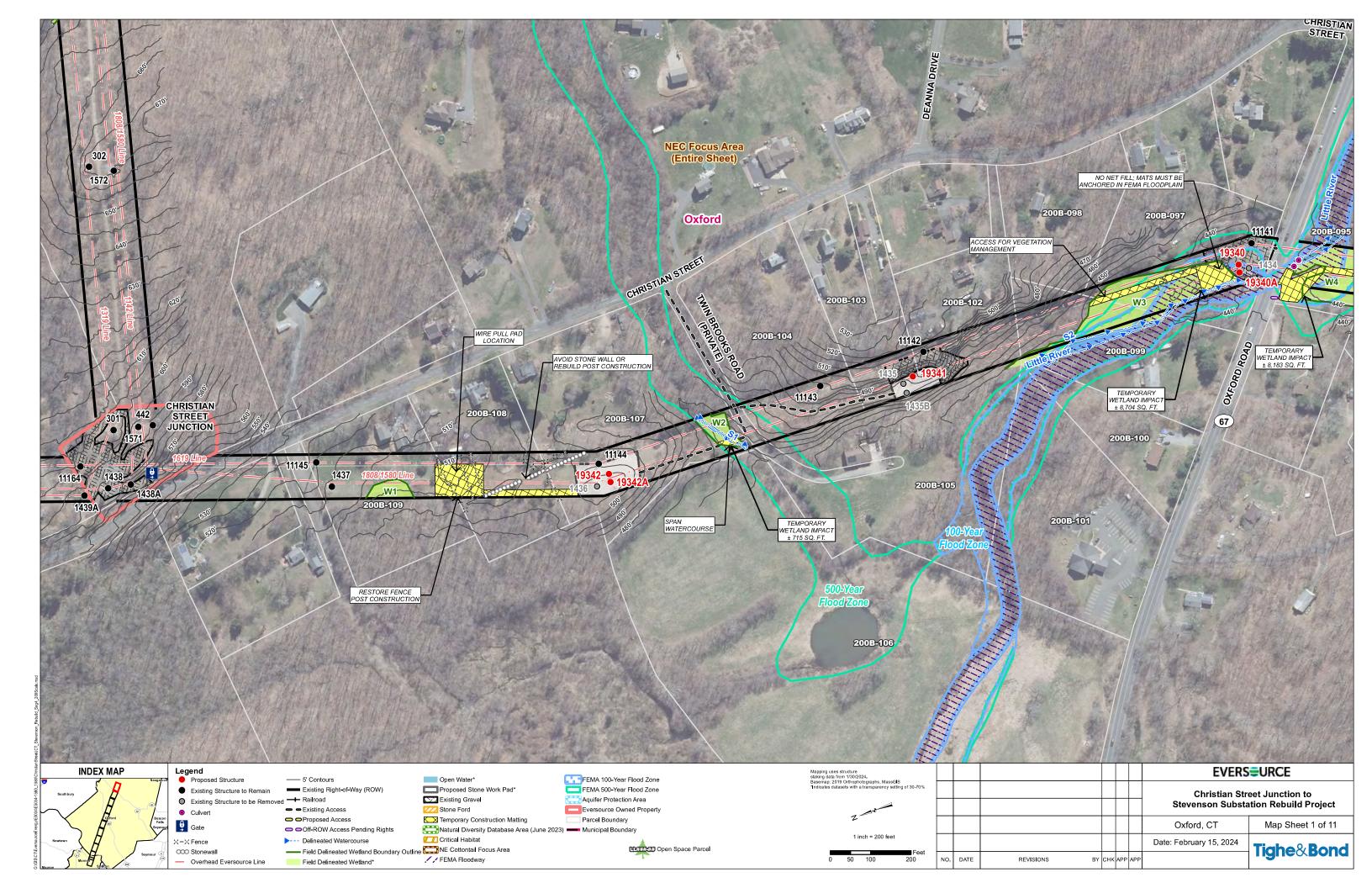
# Access to Existing Structures

- Structures 1436, 1435, 1435B: from Twin Brooks Road
- Structures 1434: from Oxford Road or Cortland Place

# Road Crossings

- Twin Brooks Road (Private)
- Oxford Road (Route 67)

Line List	Parcel Address	City	State	Owner Name
200B-095	OXFORD RD	OXFORD	СТ	CROSS HOLLOW ASSOCIATES
200B-097	632 OXFORD RD	OXFORD	СТ	CARSON BRIAN K
200B-098	23 CHRISTIAN ST	OXFORD	СТ	CAIRL RENATA
200B-099	642 OXFORD RD	OXFORD	СТ	CONTI ERNEST D & CYNTHIA M
200B-100	652 OXFORD RD	OXFORD	СТ	KEDENBURG PATRICIA & PETRONIS PATRICIA
200B-101	656 OXFORD RD	OXFORD	СТ	CORNERSTONE ASSEMBLY OF GOD INC
200B-102	27 CHRISTIAN ST	OXFORD	СТ	MARKHAM ROBERT H & CINDY
200B-103	45 CHRISTIAN ST	OXFORD	СТ	SLATER LUKE
200B-104	47 CHRISTIAN ST	OXFORD	СТ	FANOTTO ZACHARY R
200B-105	51 CHRISTIAN ST	OXFORD	СТ	FORSTER SARAH
200B-106	OXFORD RD	OXFORD	СТ	CORNERSTONE ASSEMBLY OF GOD INC
200B-107	67 CHRISTIAN ST	OXFORD	СТ	BACHMAN JOHN J
200B-108	69 CHRISTIAN ST	OXFORD	СТ	PEREZ TOMAS R & CABRERA MILAGROS D
200B-109	73 CHRISTIAN ST	OXFORD	СТ	BONAVENTURA CODY & SAMANTHA



#### Mapsheet 2 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NEC Focus Area
- NDDB Area (June 2023)
- Residential
- Undeveloped, forest
- Eversource Owned Property
- Little River (S2)
- Floodway
- 100-Year Flood Zone
- 500-Year Flood Zone

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W4, W5, W6, W7, W8
- Wetland Cover Types Scrub-Shrub, Emergent
- Watercourses S2 (Little River), S3

#### Wetland and Watercourse Crossings

• W4, W5, W6, S3

#### Right-of-Way Vegetation

- Scrub-Shrub wetland
- Scrub-Shrub upland
- Emergent wetland

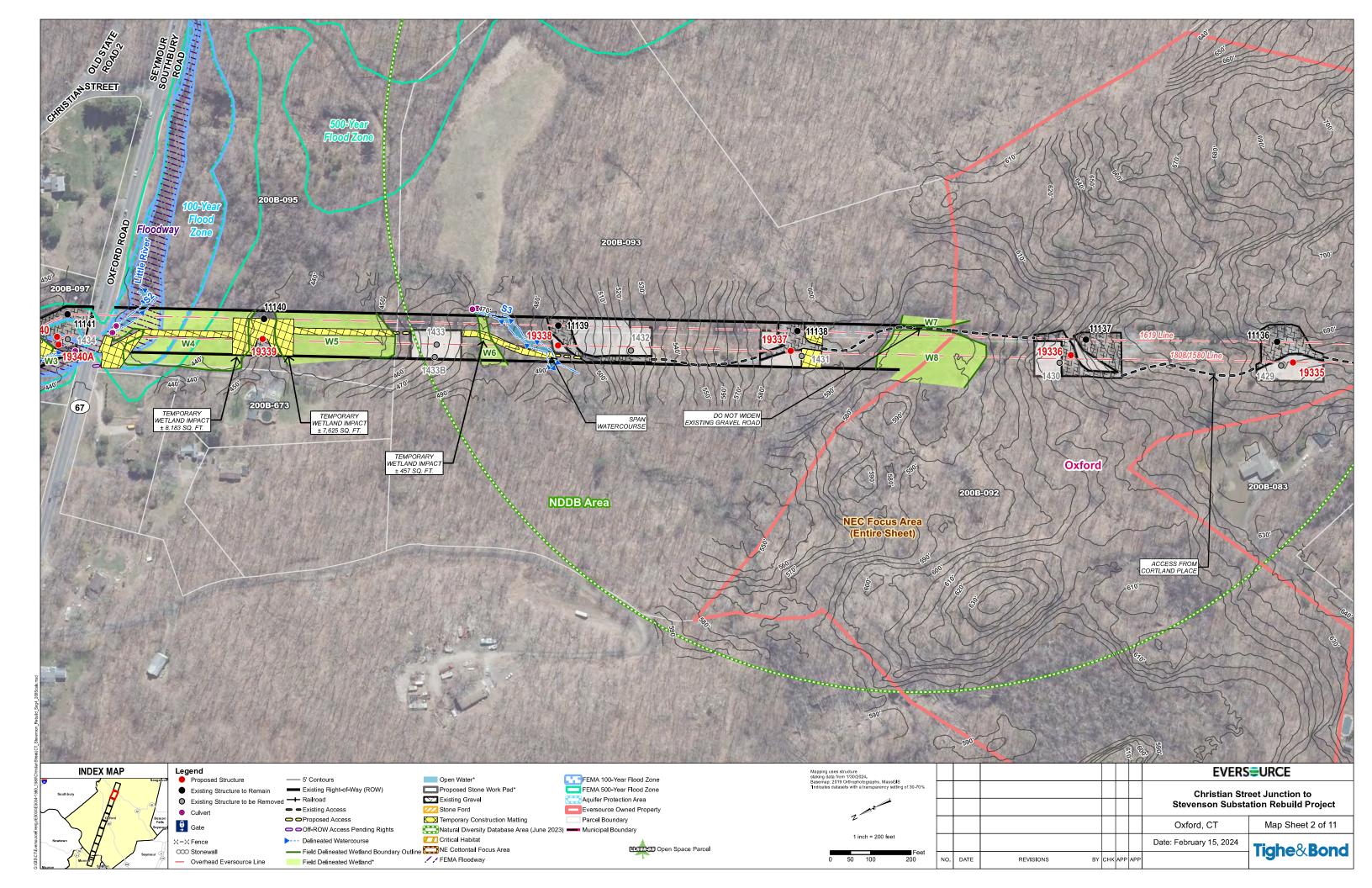
#### Access to Existing Structures

- Structures 1434: from Oxford Road
- Structures 1433, 1433B, 1432, 1431, 1430, 1429: from Oxford Road and Cortland Place

#### Road Crossings

• Oxford Road (Route 67)

Line List	Parcel Address	City	State	Owner Name
200B-083	24 CORTLAND PL	OXFORD	СТ	GUERTIN CHRISTOPHER L & THERESA A
200B-092	OXFORD RD	OXFORD	СТ	CONNECTICUT LIGHT AND POWER COMPANY
200B-093	OXFORD RD	OXFORD	СТ	PEREIRA ANTONIO JR & LIN JULIE
200B-095	OXFORD RD	OXFORD	СТ	CROSS HOLLOW ASSOCIATES
200B-097	632 OXFORD RD	OXFORD	СТ	CARSON BRIAN K
200B-673	637 OXFORD RD	OXFORD	СТ	DERBABIAN JAMES D & MARGARET D



#### Mapsheet 3 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NEC Focus Area
- NDDB Area (June 2023)
- Residential
- Undeveloped, forest
- Eversource Owned Property

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland None
- Wetland Cover Types N/A
- Watercourses None

#### Wetland and Watercourse Crossings

None

#### Right-of-Way Vegetation

- Residential landscaping
- Scrub-Shrub upland

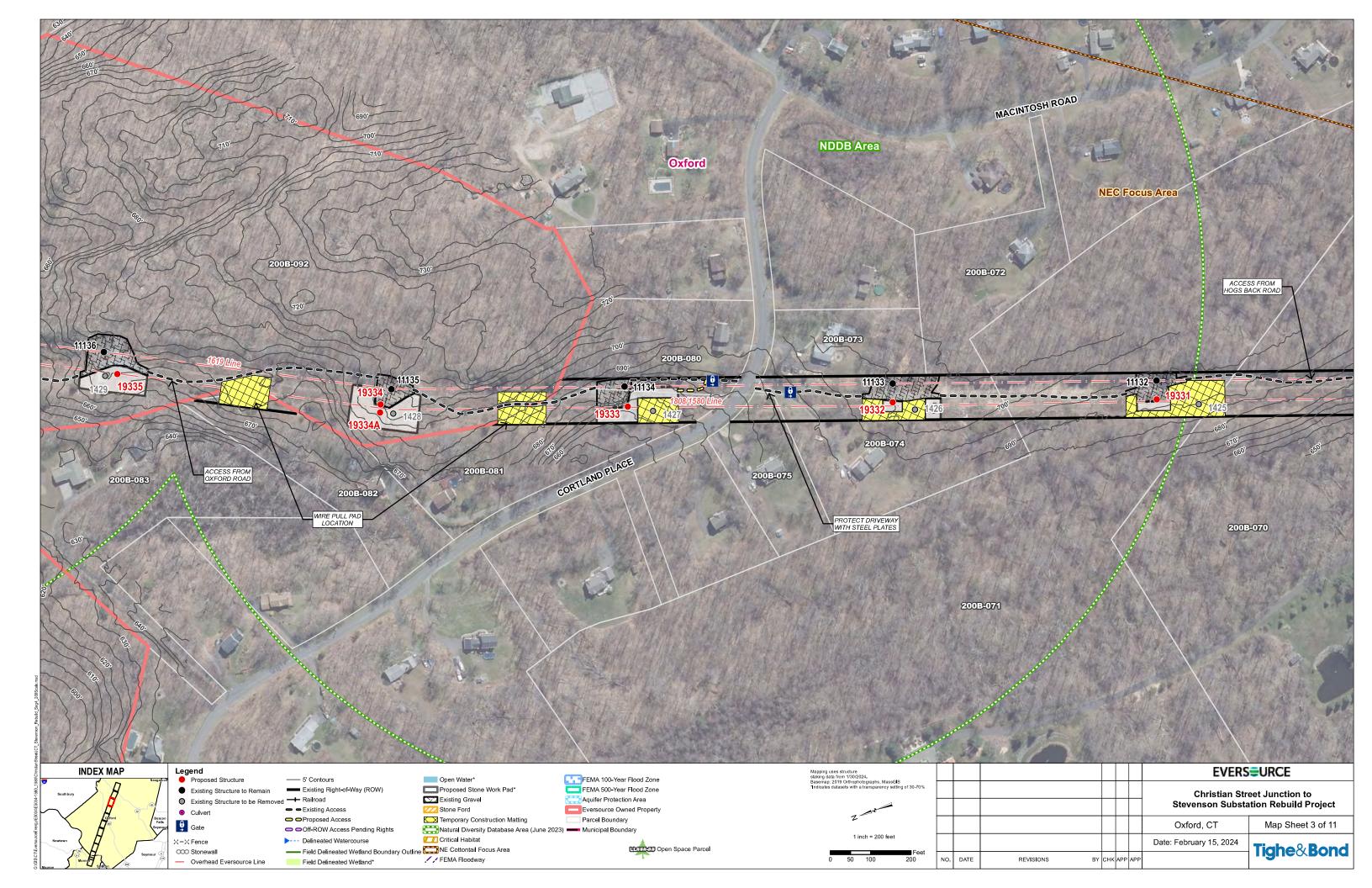
#### Access to Existing Structures

- Structures 1429, 1428, 1427: from Cortland Place or Oxford Road
- Structures 1426, 1425: from Cortland Place or Hogs Back Road

#### Road Crossings

• Cortland Place

Line List	Parcel Address	City	State	Owner Name
200B-070	212 HOGS BACK RD	OXFORD	СТ	KIRMANI SYED H
200B-071	214 HOGS BACK RD	OXFORD	СТ	ROYAL COURTYARD LLC
200B-072	34 MAC INTOSH DR	OXFORD	СТ	MCKINNON DOUGLAS S
200B-073	5 CORTLAND PL	OXFORD	СТ	TIRITA KIMBERLY & KATHARINA
200B-074	7 CORTLAND PL	OXFORD	СТ	PEDERSON GARY A & GAIL M
200B-075	9 CORTLAND PL	OXFORD	СТ	MICA ADAM & KATHRYN
200B-080	12 CORTLAND PL	OXFORD	СТ	MAVRICZ WAYNE & MAUREEN
200B-081	14 CORTLAND PL	OXFORD	СТ	STEDNER VALERIE & BRUNNER CHRISTOPHER
200B-082	18 CORTLAND PL	OXFORD	СТ	PINHO NELSON & FULCO CHRISTINA
200B-083	24 CORTLAND PL	OXFORD	СТ	GUERTIN CHRISTOPHER L & THERESA A
200B-092	OXFORD RD	OXFORD	СТ	CONNECTICUT LIGHT AND POWER COMPANY



#### Mapsheet 4 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NEC Focus Area
- Residential
- Undeveloped, forest

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W9, W10, W11
- Wetland Cover Types Emergent, Scrub-Shrub
- Watercourses S4

#### Wetland and Watercourse Crossings

• W9, W11, S4

#### Right-of-Way Vegetation

- Emergent wetland
- Scrub-Shrub wetland
- Scrub-Shrub upland
- Residential landscaping

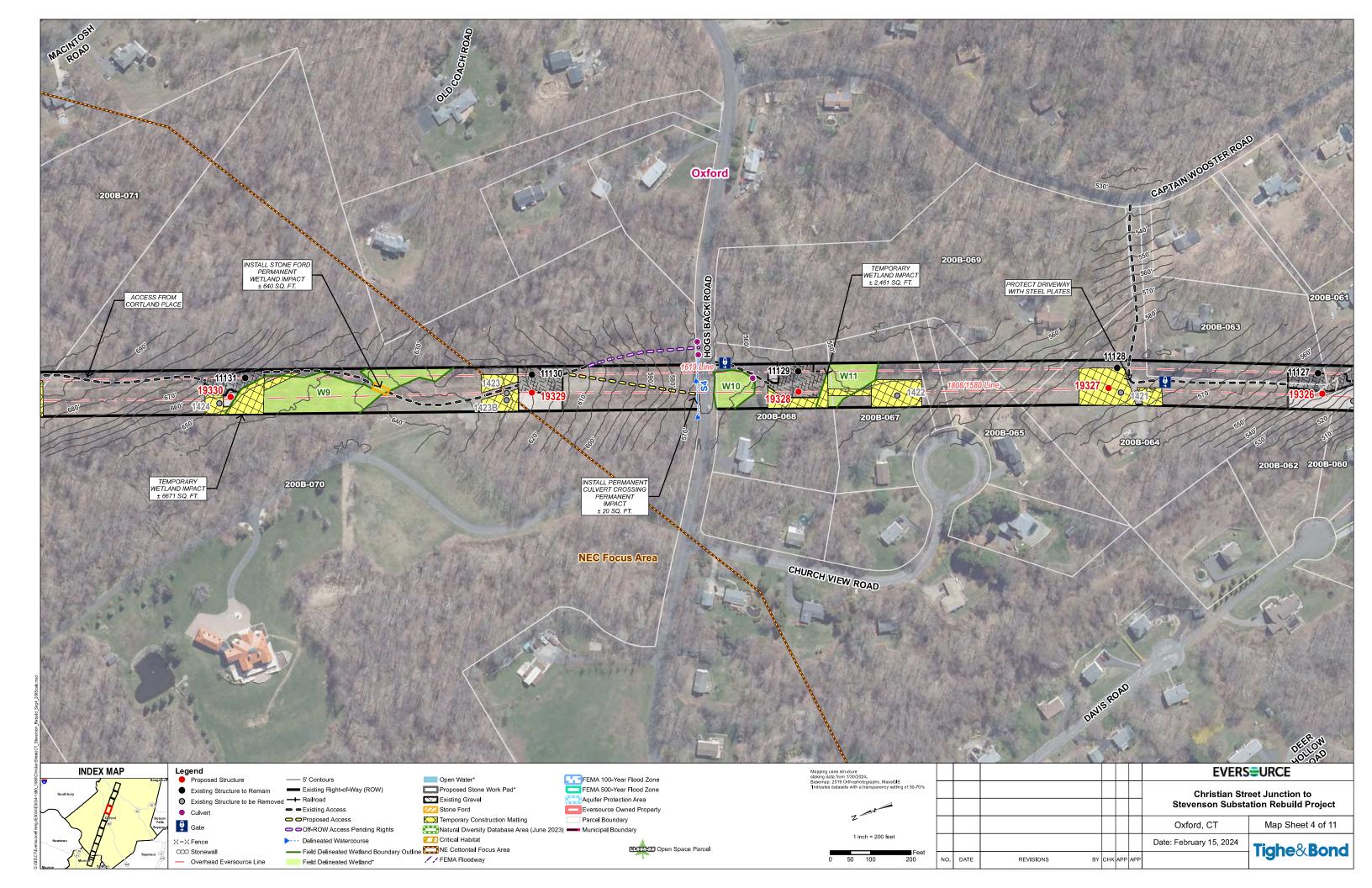
#### Access to Existing Structures

- Structures 1424, 1423, 1423B: from Cortland Place or Hogs Back Road
- Structures 1422: from Hogs Back Road
- Structure 1421: from Captain Wooster Road

#### Road Crossings

• Hogs Back Road

Line List	Parcel Address	City	State	Owner Name
200B-060	15 DAVIS RD	OXFORD	СТ	BUCKLEY JEANNINE JAMESON
200B-061	69 CAPT WOOSTER RD	OXFORD	СТ	ANGELICOLA MICHAEL DAVID & (PARKER)PEGGY
200B-062	13 DAVIS RD	OXFORD	СТ	HOGAN BRENDA
200B-063	73 CAPT WOOSTER RD	OXFORD	СТ	FRANCO ASSENTA
200B-064	75 CAPT WOOSTER RD	OXFORD	СТ	SMITH BARBARA LEE
200B-065	12 CHURCH VIEW RD	OXFORD	СТ	CONLAN THOMAS & ASHLEY
200B-067	9 CHURCH VIEW RD	OXFORD	СТ	ROBISON ROY S III & THERESA
200B-068	197 HOGS BACK RD	OXFORD	СТ	CONKLIN WILLIAM S & CHRISTY TRICIA
200B-069	77 CAPT WOOSTER RD	OXFORD	СТ	WLASUK JAMES & SUSAN
200B-070	212 HOGS BACK RD	OXFORD	СТ	KIRMANI SYED H
200B-071	214 HOGS BACK RD	OXFORD	СТ	ROYAL COURTYARD LLC



#### Mapsheet 5 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- Residential
- Undeveloped, forest

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W12, W13, W14, W15, W16
- Wetland Cover Types Emergent, Scrub-Shrub
- Watercourses S5, S6, (Sevenmile Brook), S7

#### Wetland and Watercourse Crossings

• W12, W13, W16, S5 (Sevenmile Brook)

#### Right-of-Way Vegetation

- Emergent wetland
- Scrub-Shrub wetland
- Scrub-Shrub upland
- Residential landscaping
- Pasture

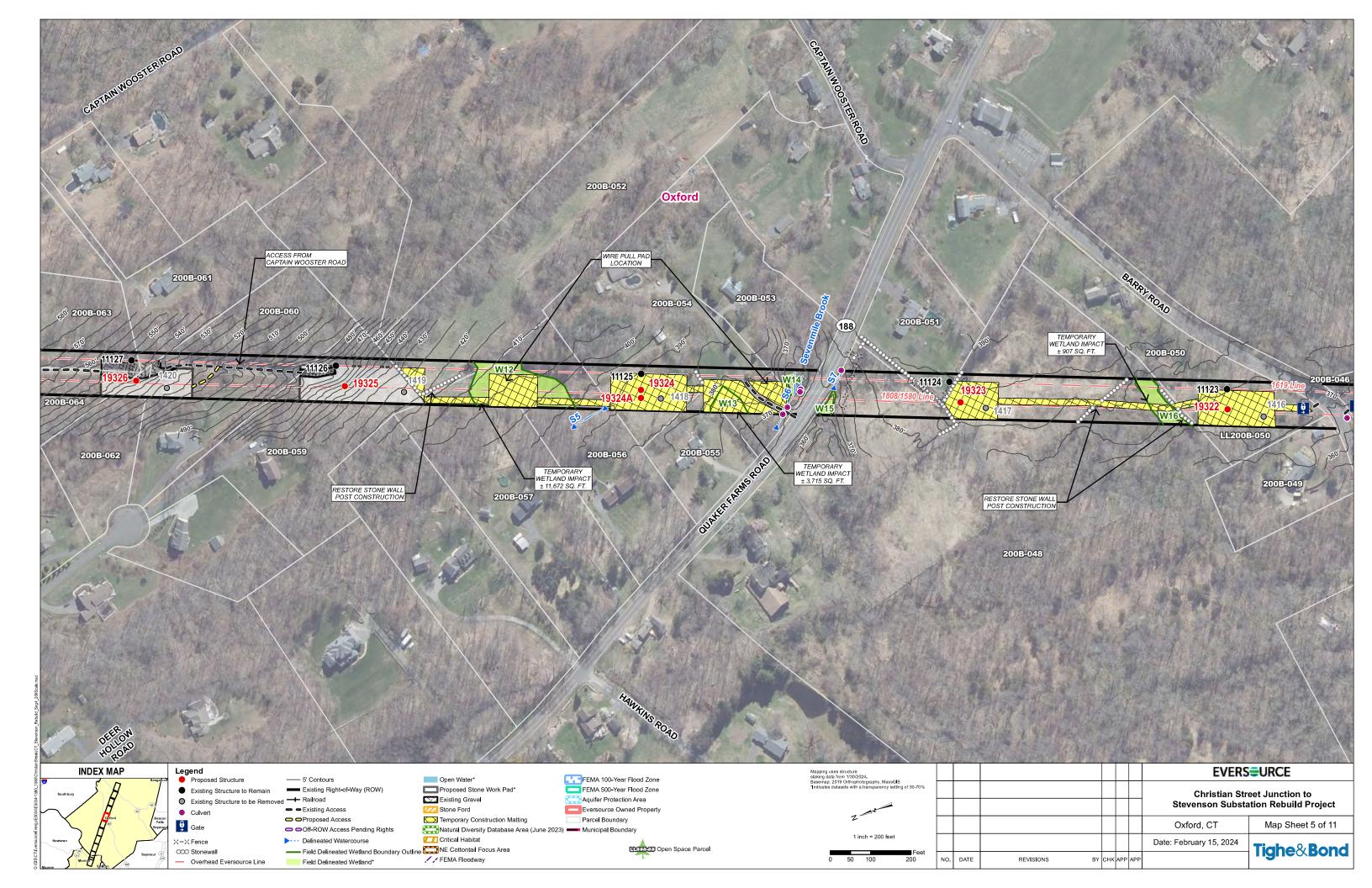
#### Access to Existing Structures

- Structures 1420, 1419, 1418: from Captain Wooster Road or Quaker Farms Road
- Structures 1417, 1416: from Barry Road

#### Road Crossings

- Quaker Farms Road (Route 188)
- Barry Road

Line List	Parcel Address	City	State	Owner Name
200B-046	45 BARRY RD	OXFORD	СТ	MCDONNELL MATTHEW C & JACQUELINE A
200B-048	429 QUAKER FARMS RD	OXFORD	СТ	FERNANDES JOHN
200B-049	20 BARRY RD	OXFORD	СТ	COHEN CATHLEEN M
200B-050	16 BARRY RD	OXFORD	СТ	FARNUM ROBERTS & NANCY W
200B-051	415 QUAKER FARMS RD	OXFORD	СТ	CHERNOVETZ JOSEPH A & ANGELA
200B-052	7 CAPT WOOSTER RD	OXFORD	СТ	STANTON AUSTIN W & BASILE MELISSA
200B-053	420 QUAKER FARMS RD	OXFORD	СТ	KROLL ALICE & KENNETH D
200B-054	424 QUAKER FARMS RD	OXFORD	СТ	KROLL PETER
200B-055	428 QUAKER FARMS RD	OXFORD	СТ	CT HOUSES LLC & EQUITY TRUST COMPANY
200B-056	430 QUAKER FARMS RD	OXFORD	СТ	JONES DIANA INTHAPANHYA &
200B-057	432 QUAKER FARMS RD	OXFORD	СТ	BLAKE PETER & CAROL J
200B-059	14 DAVIS RD	OXFORD	СТ	GIANSANTI PAUL J & CRISTINA M
200B-060	15 DAVIS RD	OXFORD	СТ	BUCKLEY JEANNINE JAMESON
200B-061	69 CAPT WOOSTER RD	OXFORD	СТ	ANGELICOLA MICHAEL DAVID & (PARKER)PEGGY
200B-062	13 DAVIS RD	OXFORD	СТ	HOGAN BRENDA
200B-063	73 CAPT WOOSTER RD	OXFORD	СТ	FRANCO ASSENTA
200B-064	75 CAPT WOOSTER RD	OXFORD	СТ	SMITH BARBARA LEE



#### Mapsheet 6 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- Residential
- Undeveloped, forest
- 100-Year Flood Zone
- 500-Year Flood Zone
- Eightmile Brook (S8)

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W17, W18
- Wetland Cover Types Emergent, Scrub-Shrub
- Watercourses S8 (Eightmile Brook)

#### Wetland and Watercourse Crossings

• W17, W18

#### Right-of-Way Vegetation

- Emergent wetland
- Scrub-Shrub wetland
- Scrub-Shrub upland
- Residential landscaping

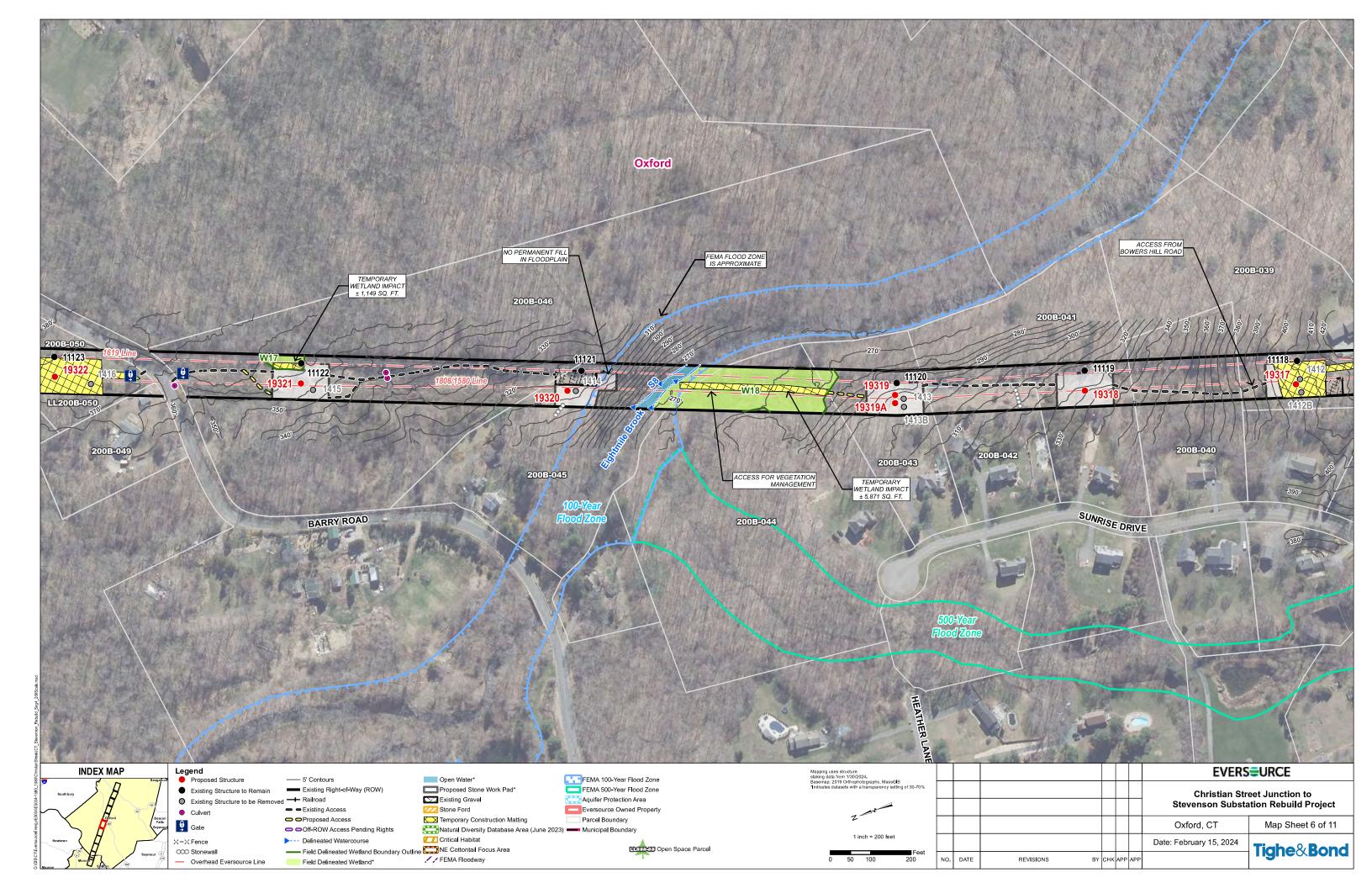
#### Access to Existing Structures

- Structures 1416, 1415, 1414: from Barry Road
- Structures 1413, 1413B, 1412, 1412B: from Bowers Hill Road

#### Road Crossings

• Barry Road

Line List	Parcel Address	City	State	Owner Name
200B-039	14 SUNRISE DR	OXFORD	СТ	D'AMATO ROSEMARIE
200B-040	16 SUNRISE DR	OXFORD	СТ	FATTIBENE ANTHONY & KATIE
200B-041	18 SUNRISE DR	OXFORD	СТ	CZARNEKE KAREN NIELSINE &
200B-042	20 SUNRISE DR	OXFORD	СТ	GRECO BRIAN P & LAURA J TRUSTEES
200B-043	22 SUNRISE DR	OXFORD	СТ	MEDINA BRIAN & EMILY
200B-044	24 SUNRISE DR	OXFORD	СТ	KOCHERA GEORGE III & RENEE
200B-045	55 BARRY RD	OXFORD	СТ	MOSS III WILLIAM DEAN & WINSKILL ANNA
200B-046	45 BARRY RD	OXFORD	СТ	MCDONNELL MATTHEW C & JACQUELINE A
200B-049	20 BARRY RD	OXFORD	СТ	COHEN CATHLEEN M
200B-050	16 BARRY RD	OXFORD	СТ	FARNUM ROBERTS & NANCY W



#### Mapsheet 7 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- Residential
- Undeveloped, forest
- 500-Year Flood Zone
- Aggie Park Open Space

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W19
- Wetland Cover Types Scrub-Shrub
- Watercourses S9

#### Wetland and Watercourse Crossings

• W19, S9

#### Right-of-Way Vegetation

- Residential landscaping
- Recreational open space
- Scrub-Shrub wetland
- Scrub-Shrub upland

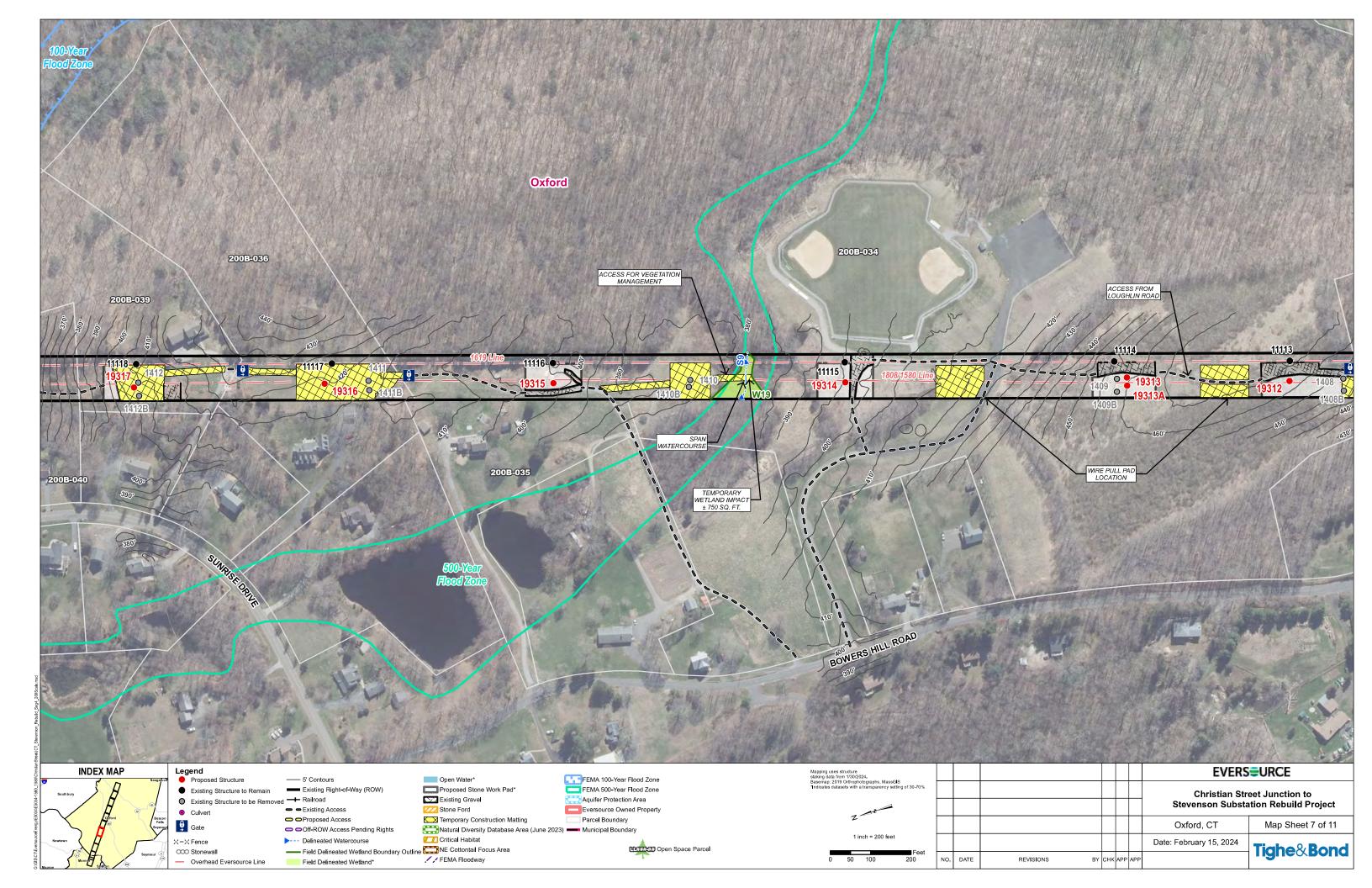
#### Access to Existing Structures

• Structures 1412, 1412B, 1411, 1411B, 1410, 1410B, 1409, 1409B, 1408, 1408B: from Bowers Hill Road

#### **Road Crossings**

• None

Line List	Parcel Address	City	State	Owner Name
200B-034	BOWERS HILL RD	OXFORD	СТ	TOWN OF OXFORD
200B-035	83 BOWERS HILL RD	OXFORD	СТ	GRAILICH LINDSEY H & TYLER
200B-036	6 SUNRISE DR	OXFORD	СТ	FEDEROWICZ THOMAS & CATHY
200B-039	14 SUNRISE DR	OXFORD	СТ	D'AMATO ROSEMARIE
200B-040	16 SUNRISE DR	OXFORD	СТ	FATTIBENE ANTHONY & KATIE



#### Mapsheet 8 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- Residential
- Undeveloped, forest
- 100-Year Flood Zone
- Aggie Park Open Space

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W20
- Wetland Cover Types Emergent, Open Water
- Watercourses None

#### Wetland and Watercourse Crossings

• W20

#### Right-of-Way Vegetation

- Emergent wetland
- Residential landscaping

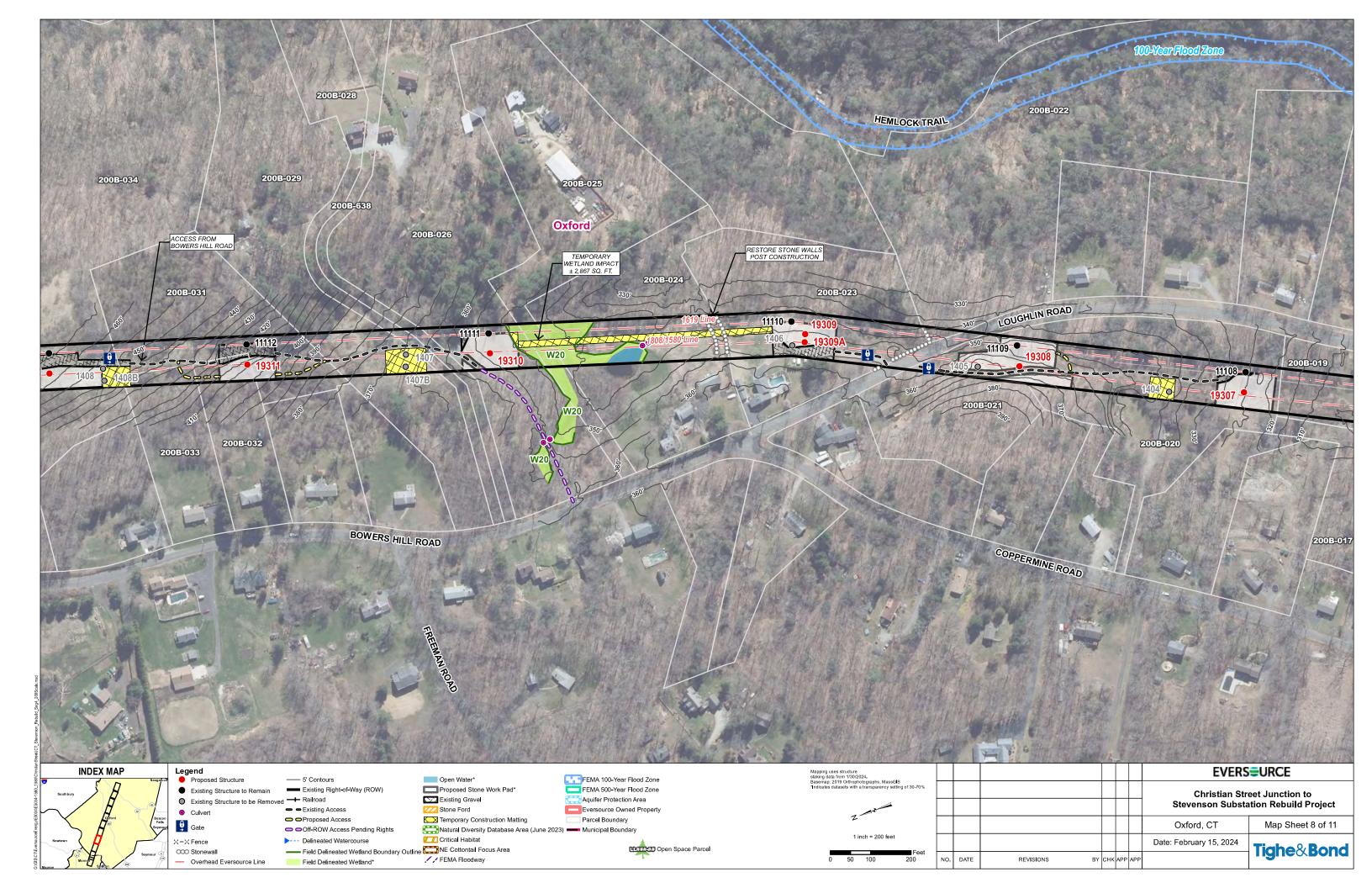
#### Access to Existing Structures

- Structures 1408, 1408B, 1407, 1407B, 1406: from Bowers Hill Road or Loughlin Road
- Structures 1405, 1404: from Loughlin Road

#### **Road Crossings**

• Loughlin Road

Line List	Parcel Address	City	State	Owner Name
200B-017	LOUGHLIN RD	OXFORD	СТ	DOWNS JOHN & WILLIAM D JR TRUSTEE
200B-019	210 LOUGHLIN RD	OXFORD	СТ	PRAJER RONALD TRUSTEE OF
200B-020	31 COPPERMINE RD	OXFORD	СТ	DILLER CLAUDETTE
200B-021	174 LOUGHLIN RD	OXFORD	CT	TROESTER WILLIAM H
200B-022	HEMLOCK TRAIL	OXFORD	СТ	FITCH LYNDA G
200B-023	171 BOWERS HILL RD	OXFORD	СТ	LJUNGQUIST ALLEN R & ANNE
200B-024	165 BOWERS HILL RD	OXFORD	СТ	WOJNAGI DENIS JR & MELISSA
200B-025	163 BOWERS HILL RD	OXFORD	СТ	FISHER KAREN A TRUSTEE
200B-026	161 BOWERS HILL RD	OXFORD	СТ	HARMONY RANCH LTD
200B-028	155 BOWERS HILL RD	OXFORD	СТ	TUCKER JR LEWIS I
200B-029	153 BOWERS HILL RD	OXFORD	СТ	TUCKER JR LEWIS I
200B-031	BOWERS HILL RD	OXFORD	СТ	THE TOWN OF OXFORD
200B-032	135 BOWERS HILL RD	OXFORD	СТ	DEGENNARO JENNIFER L
200B-033	133 BOWERS HILL RD	OXFORD	СТ	EGAN JAMES JOSEPH & VICTORIA LEIGH
200B-034	BOWERS HILL RD	OXFORD	СТ	TOWN OF OXFORD
200B-638	159 BOWERS HILL RD	OXFORD	СТ	RAYMOND GARRETT AS TRUSTEE



#### Mapsheet 9 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NDDB Area (June 2023)
- Residential
- Undeveloped, forest
- Floodway
- 100-Year Flood Zone
- 500-Year Flood Zone

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W21, W22
- Wetland Cover Types Emergent, Scrub-Shrub
- Watercourses S10

#### Wetland and Watercourse Crossings

• none

#### Right-of-Way Vegetation

- Emergent wetland
- Scrub-Shrub wetland
- Scrub-Shrub upland
- Residential landscaping

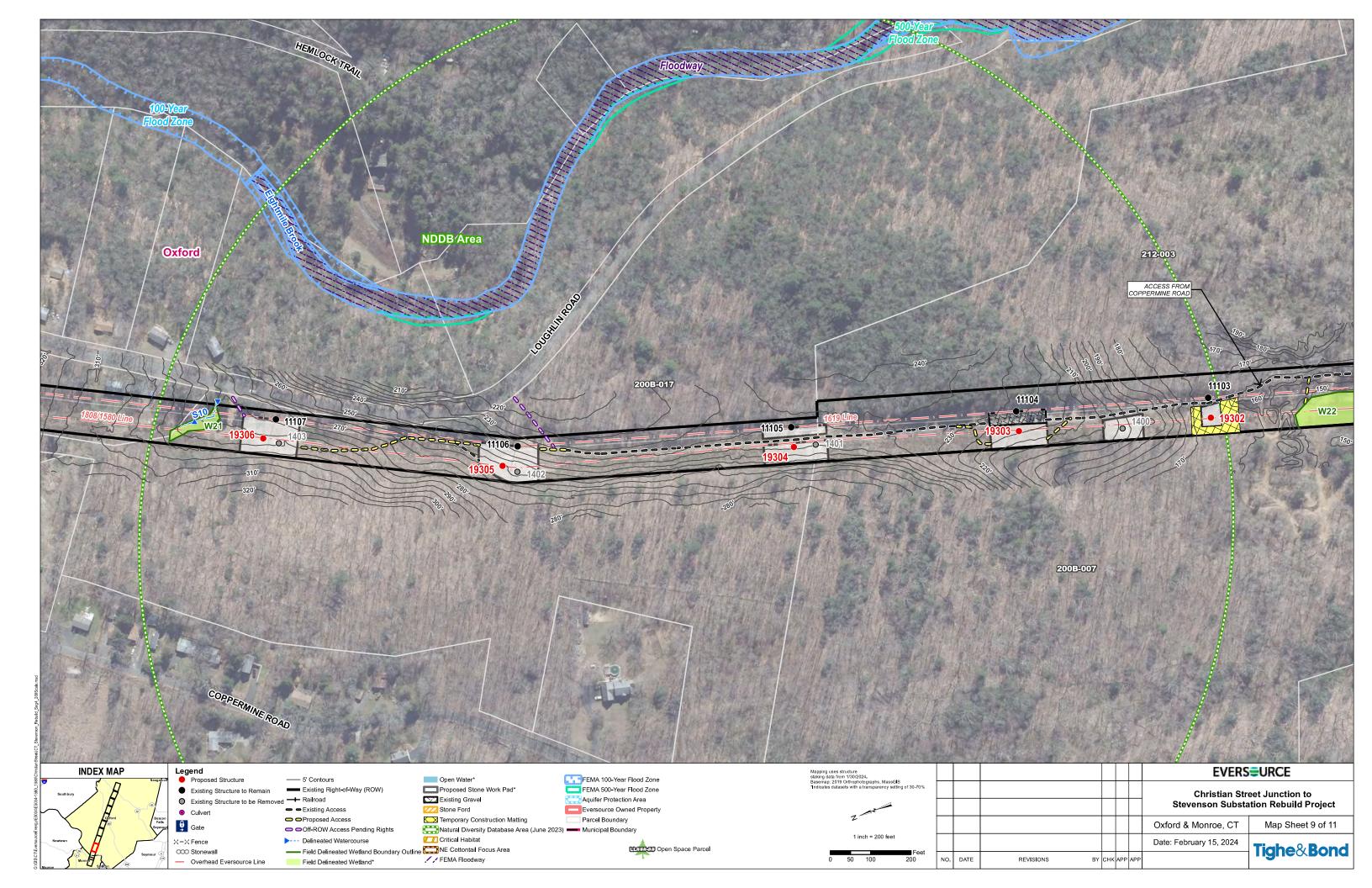
#### Access to Existing Structures

• Structure 1403, 1402, 1401, 1400: from Coppermine Road

#### Road Crossings

None

Line List	Parcel Address	City	State	Owner Name
200B-007	COPPERMINE RD	OXFORD	СТ	DESIGN LAND DEVELOPERS OF OXFORD INC
200B-017	LOUGHLIN RD	OXFORD	СТ	DOWNS JOHN & WILLIAM D JR TRUSTEE
200B-019	210 LOUGHLIN RD	OXFORD	СТ	PRAJER RONALD TRUSTEE OF
212-003	708 ROOSEVELT DR	OXFORD	СТ	ROBERT MASTRONI EXCAVATING LLC



#### Mapsheet 10 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Oxford, Town of Monroe, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NDDB Area (June 2023)
- NEC Focus Area
- Undeveloped, forest
- Floodway
- 100-Year Flood Zone
- 500-Year Flood Zone
- Housatonic River
- Lake Zoar
- Housatonic Railroad
- Eversource owned property

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W22
- Wetland Cover Types Emergent
- Watercourses S11 (Housatonic River)

#### Wetland and Watercourse Crossings

• W22

#### Right-of-Way Vegetation

Emergent

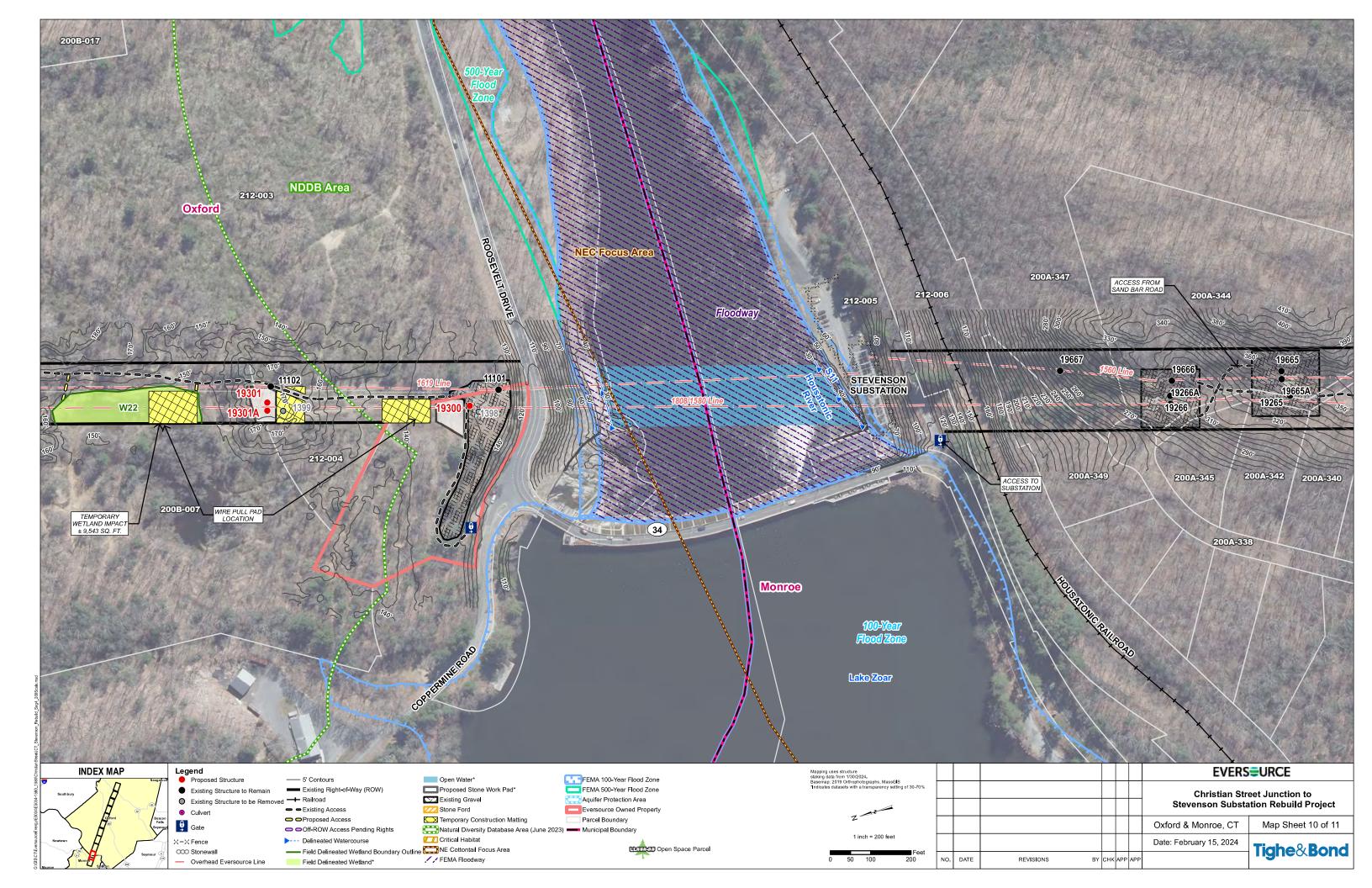
#### Access to Existing Structures and Pull Pads

- Structures 1399, 1398: from Coppermine Road
- Pull Pads from Sand Bar Road

#### Road Crossings

• Roosevelt Drive (Route 34)

Line List	Parcel Address	City	State	Owner Name
200A-338	84 COTTAGE ST	MONROE	СТ	COTTAGE STREET LLC
200A-340	20 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-342	26 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-344	50 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-345	32 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-347	49 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-349	41 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200B-007	COPPERMINE RD	OXFORD	СТ	DESIGN LAND DEVELOPERS OF OXFORD INC
200B-017	LOUGHLIN RD	OXFORD	СТ	DOWNS JOHN & WILLIAM D JR TRUSTEE
212-003	708 ROOSEVELT DR	OXFORD	СТ	ROBERT MASTRONI EXCAVATING LLC
212-004	COPPERMINE RD	OXFORD	СТ	STATE OF CT-DOT
212-005	1 ROOSEVELT DR	MONROE	СТ	FIRSTLIGHT CT HOUSATONIC LLC
212-006	00 SHELTON TO NEWTOWN T/L	MONROE	СТ	MAYBROOK RAILROAD CO INC



#### Mapsheet 11 of 11

Christian Street Junction to Stevenson Substation Rebuild Project Town of Monroe, Connecticut

#### **AREA DESCRIPTION**

Existing Land Use & Resource Areas

- NDDB Area (June 2023)
- NEC Focus Area
- Undeveloped, forest
- Residential
- Paugussett Trail
- 100-Year Flood Zone
- Housatonic Railroad
- Eversource owned property

#### **RIGHT-OF-WAY DESCRIPTION**

- <u>+</u> 110 Feet
- Gravel Access Roads
- Maintained

#### Water Resources

- Wetland W23, W24
- Wetland Cover Types Forested
- Watercourses S12, S13

#### Wetland and Watercourse Crossings

None

#### Right-of-Way Vegetation

• Scrub-Shrub upland

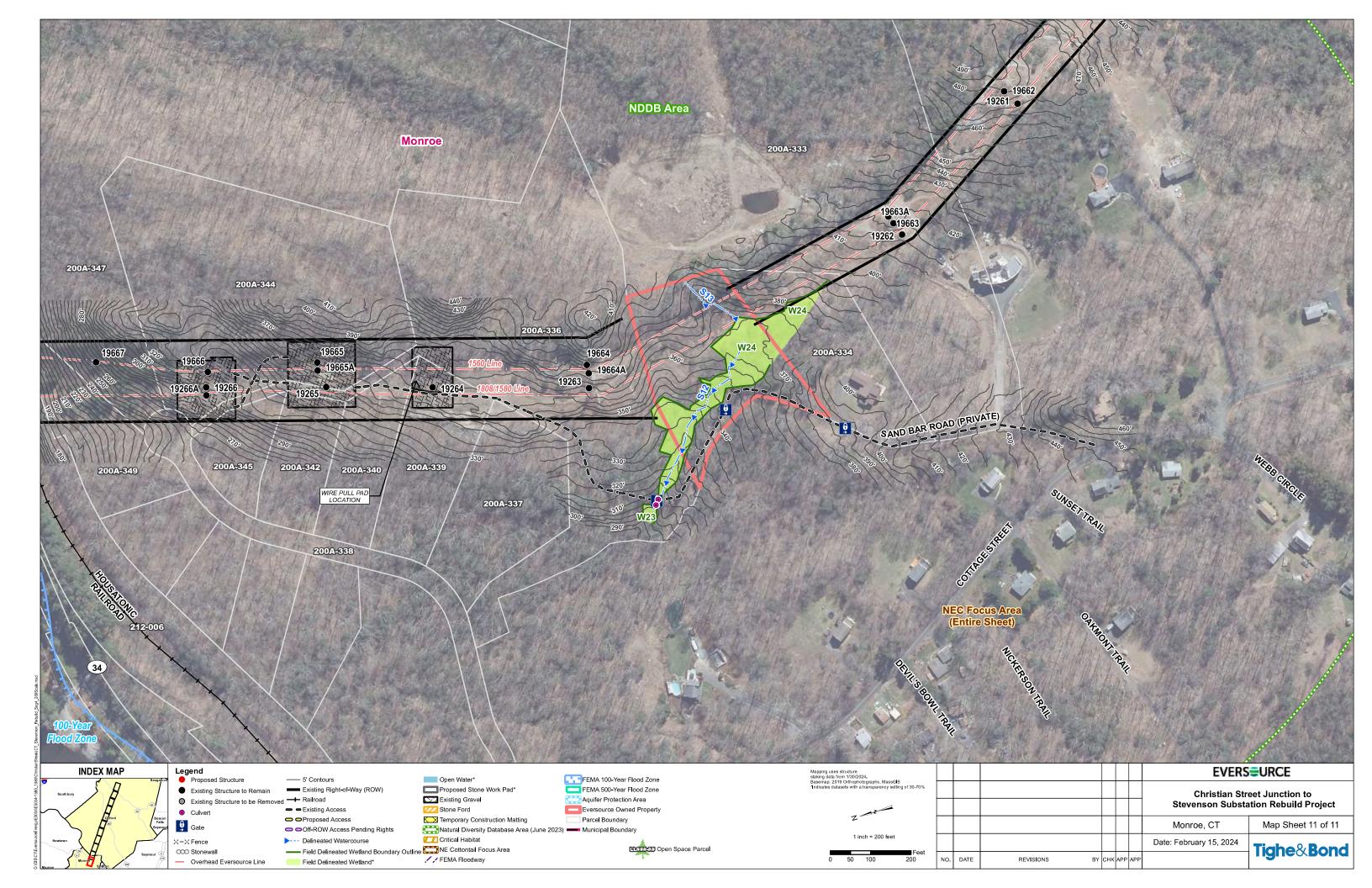
#### Access to Pull Pads

• Pull Pads from Sand Bar Road

#### Road Crossings

None

Line List	Parcel Address	City	State	Owner Name
200A-333	16 SAND BAR RD	MONROE	СТ	HUNDRED ACRE WOOD LLC
200A-334	22 SAND BAR RD	MONROE	СТ	LYONS MICHAEL
200A-336	40 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
300A-337	8 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-338	84 COTTAGE ST	MONROE	СТ	COTTAGE STREET LLC
200A-339	14 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-340	20 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-342	26 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-344	50 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-345	32 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-347	49 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-349	41 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
212-006	00 SHELTON TO NEWTOWN T/L	MONROE	СТ	MAYBROOK RAILROAD CO INC



CSC Petition Eversource Energy

## Attachment B

Structure Table

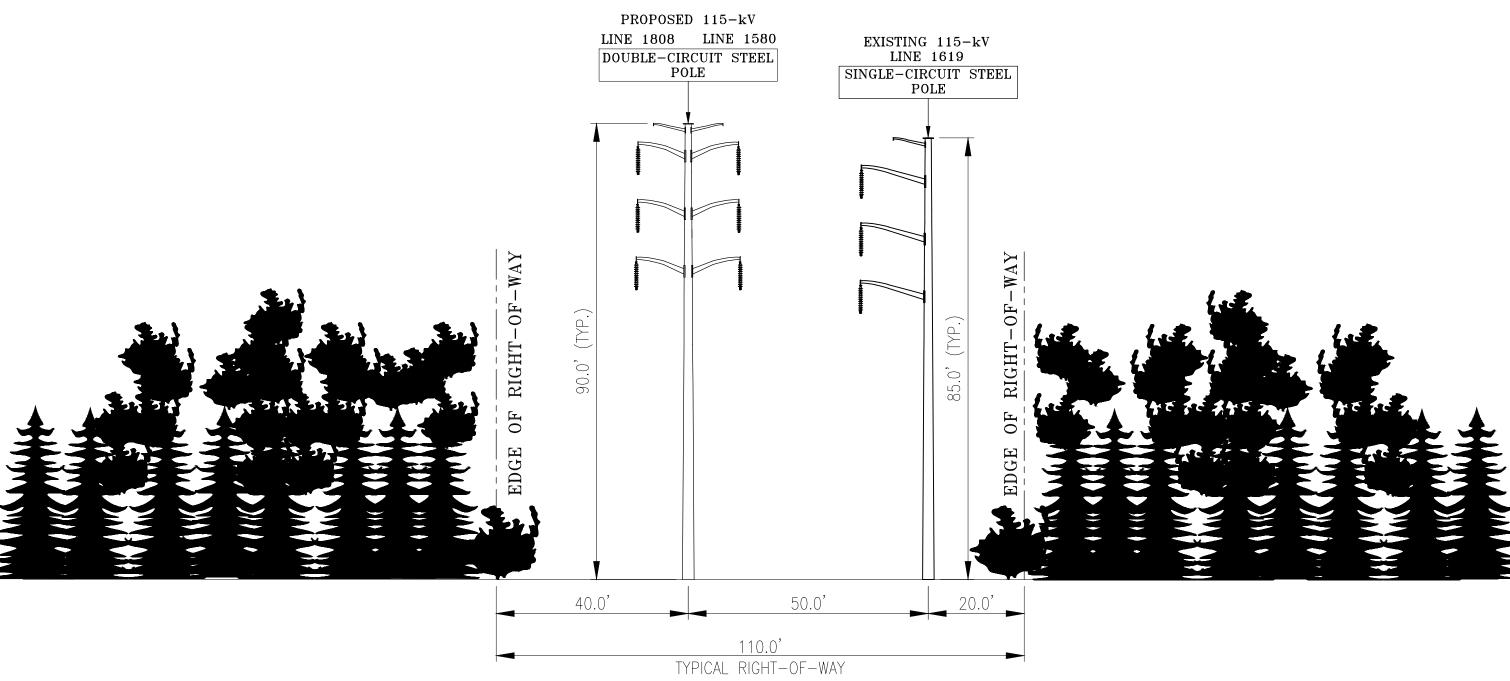
## Structure Table Christian Street Junction to Stevenson Substation Rebuild Project 1580/1808 Lines

Existing	Existing	Existing	Existing	Proposed	Proposed	Proposed	Proposed	Change in
Structures	Structure	Structure Type	Structure Height	Structures	Structure	Structure Type	Structure Height	Structure Height
Circuits	No.		(feet)	Circuits	No.		(feet)	(feet)
1580 & 1808	1436	DCLT	81	1580	19342	SCSP	92	11
				1808	19342A	SCSP	92	
1580	1435	SCSP	108	1580 & 1808	19341	DCSP	97	-11
1808	1435B	SCSP	108					
1580 & 1808	1434	DCLT	80	1580	19340	SCSP	102	22
				1808	19340A	SCSP	102	
1580	1433	SCSP	108	1580 & 1808	19339	DCSP	97	-11
1808	1433B	SCSP	108					
1580 & 1808	1432	DCLT	81	1580 & 1808	19338	DCSP	121.5	40.5
1580 & 1808	1431	DCLT	81	1580 & 1808	19337	DCSP	75	-6
1580 & 1808	1430	DCLT	81	1580 & 1808	19336	DCSP	93.5	12.5
1580 & 1808	1429	DCLT	81	1580 & 1808	19335	DCSP	88.5	7.5
1580 & 1808	1428	DCLT	81	1580	19334	SCSP	86.5	5.5
1300 & 1000	1420	BCET	01	1808	19334A	SCSP	86.5	3.3
1580 & 1808	1427	DCLT	91	1580 & 1808	19333	DCSP	121.5	30.5
1580 & 1808 1580 & 1808	1426	DCLT	81	1580 & 1808	19332	DCSP	93.5	12.5
1580 & 1808	1425	DCLT	81	1580 & 1808	19331	DCSP	93.5	12.5
1580 & 1808	1424	DCLT	81	1580 & 1808	19330	DCSP	102	21
1580	1424	SCSP	108	1580 & 1808	19330	DCSP	79	-29
1808	1423B	+	108	1300 & 1000	19329	DCSF	79	-29
	1423B 1422	SCSP		1500 9 1000	10220	DCCD	112	21
1580 & 1808		DCLT	81	1580 & 1808	19328	DCSP	112	31
1580 & 1808	1421	DCLT	81	1580 & 1808	19327	DCSP	79	-2
1580 & 1808	1420	DCLT	93	1580 & 1808	19326	DCSP	96.5	3.5
1580 & 1808	1419	DCLT	81	1580 & 1808	19325	DCSP	101.5	20.5
1580 & 1808	1418	DCLT	80	1580	19324	SCSP	107	27
4500 0 4000	4.447	DOLT	20	1808	19324A	SCSP	107	10
1580 & 1808	1417	DCLT	80	1580 & 1808	19323	DCSP	98	18
1580 & 1808	1416	DCLT	81	1580 & 1808	19322	DCSP	107.5	26.5
1580 & 1808	1415	DCLT	81	1580 & 1808	19321	DCSP	98	17
1580 & 1808	1414	DCLT	81	1580 & 1808	19320	DCSP	82	1
1580	1413	SCSP	103	1580	19319	SCSP	87	-16
1808	1413B	SCSP	103	1808	19319A	SCSP	87	-16
				1580 & 1808	19318	DCSP	96.5	
1580	1412	SCSP	98	1580 & 1808	19317	DCSP	88.5	-9.5
1808	1412B	SCSP	98					
1580	1411	SCSP	98	1580 & 1808	19316	DCSP	88.5	-9.5
1808	1411B	SCSP	98					_
1580	1410	SCSP	113	1580 & 1808	19315	DCSP	79	-34
1808	1410B	SCSP	113					
				1580 & 1808	19314	DCSP	97	
1580	1409	SCSP	98	1580	19313	SCSP	96.5	-1.5
1808	1409B	SCSP	98	1808	19313A	SCSP	96.5	-1.5
1580	1408	SCSP	103	1580 & 1808	19312	DCSP	75	-28
1808	1408B	SCSP	103					
1580	1407	SCSP	108	1580 & 1808	19311	DCSP	91.5	-16.5
1808	1407B	SCSP	108					
				1580 & 1808	19310	DCSP	102	
1580 & 1808	1406	DCLT	81	1580	19309	SCSP	97	16
				1808	19309A	SCSP	97	
1580 & 1808	1405	DCLT	81	1580 & 1808	19308	DCSP	96.5	15.5
1580 & 1808	1404	DCLT	82	1580 & 1808	19307	DCSP	97	15
1580 & 1808	1403	DCLT	84	1580 & 1808	19306	DCSP	102	18
1580 & 1808	1402	DCLT	82	1580 & 1808	19305	DCSP	96.5	14.5
1580 & 1808	1401	DCLT	83	1580 & 1808	19304	DCSP	88.5	5.5
1580 & 1808	1400	DCLT	94	1580 & 1808	19303	DCSP	79	-15
				1580 & 1808	19302	DCSP	117	
1580 & 1808	1399	DCLT	86	1580	19301	SCSP	72	-14
				1808	19301A	SCSP	72	
1580 & 1808	1398	DCLT	81	1580 & 1808	19300	DCSP	101.5	20.5
					BOLD indicate	es an added struc	ture	
						Average Hei		

CSC Petition Eversource Energy

### Attachment C

**Typical Cross Sections** 



# PROPOSED R.O.W. CONFIGURATION (TYPICAL)

NO ADDITIONAL RIGHT-OF-WAY REQUIRED
DOUBLE-CIRCUIT/SINGLE-CIRCUIT STEEL MONOPOLE VERTICAL DESIGN
LOOKING FROM STEVENSON S/S TO CHRISTIAN ST. JCT.
IN THE TOWN OF OXFORD, CT

								E	VI	ERS	•		CE	
							TITLE		11	SON S/S TO 5-kV TRAN CROSS S OXFO	ISMIS:	SION LIN ON (TYP	E	•
							BY DATE	WKM/NV5 01/17/24	CHKD DATE	DDM/NV5 01/17/24	APP DATE	DDM/NV5 01/17/24	APP DATE	_
1	01/31/24	ISSUED FOR SITING REV. 1	JNR	HKG	HKG		H-SCALE		SIZE	D		OK & PAGES		
0	01/17/24	ISSUED FOR SITING	WKM	DDM	DDM		V-SCALE	NTS	V.S.		R.E. DWG			
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP	R.E. PRO	J. NUMBER		131736	DWG NO.	012	52-850	00p001

EXISTING R.O.W. CONFIGURATION

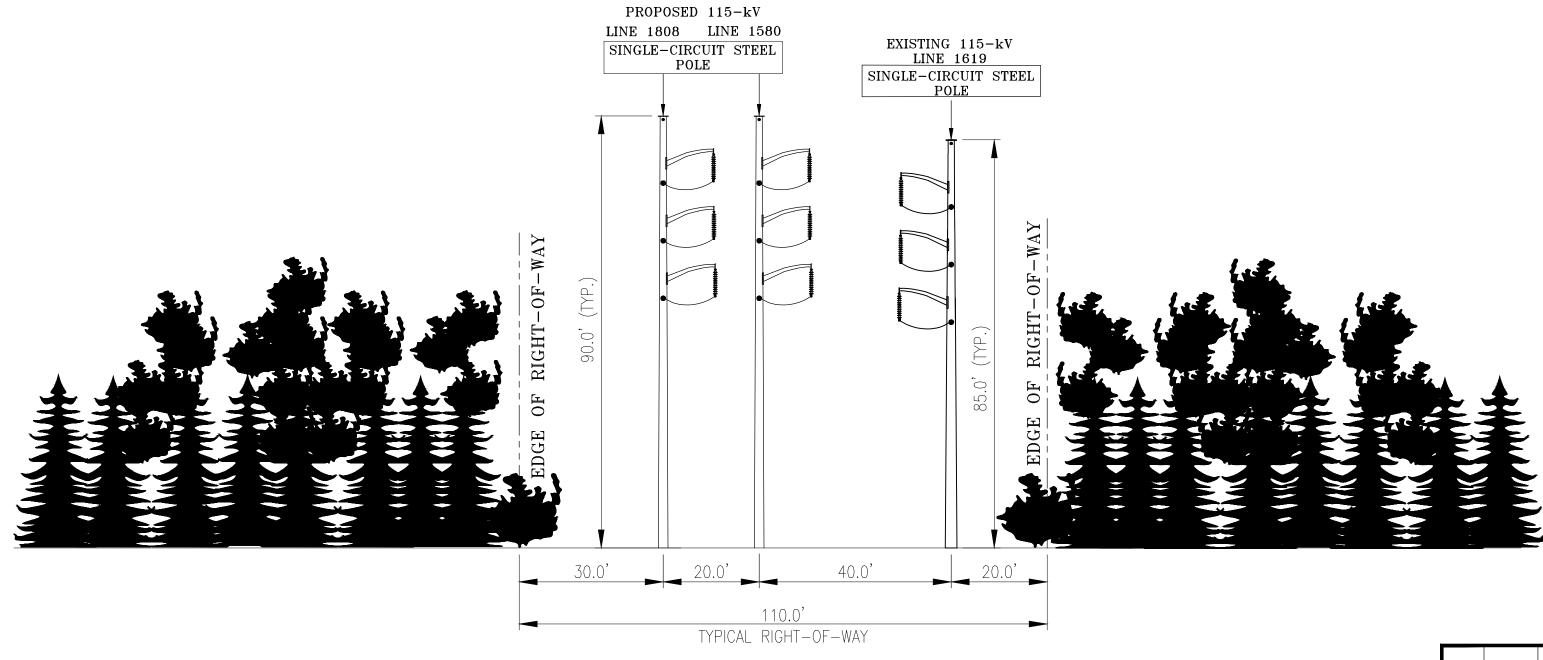
(TYPICAL)

DOUBLE-CIRCUIT STEEL LATTICE/SINGLE-CIRCUIT STEEL

MONOPOLE VERTICAL DESIGN

LOOKING FROM STEVENSON S/S TO CHRISTIAN ST. JCT.

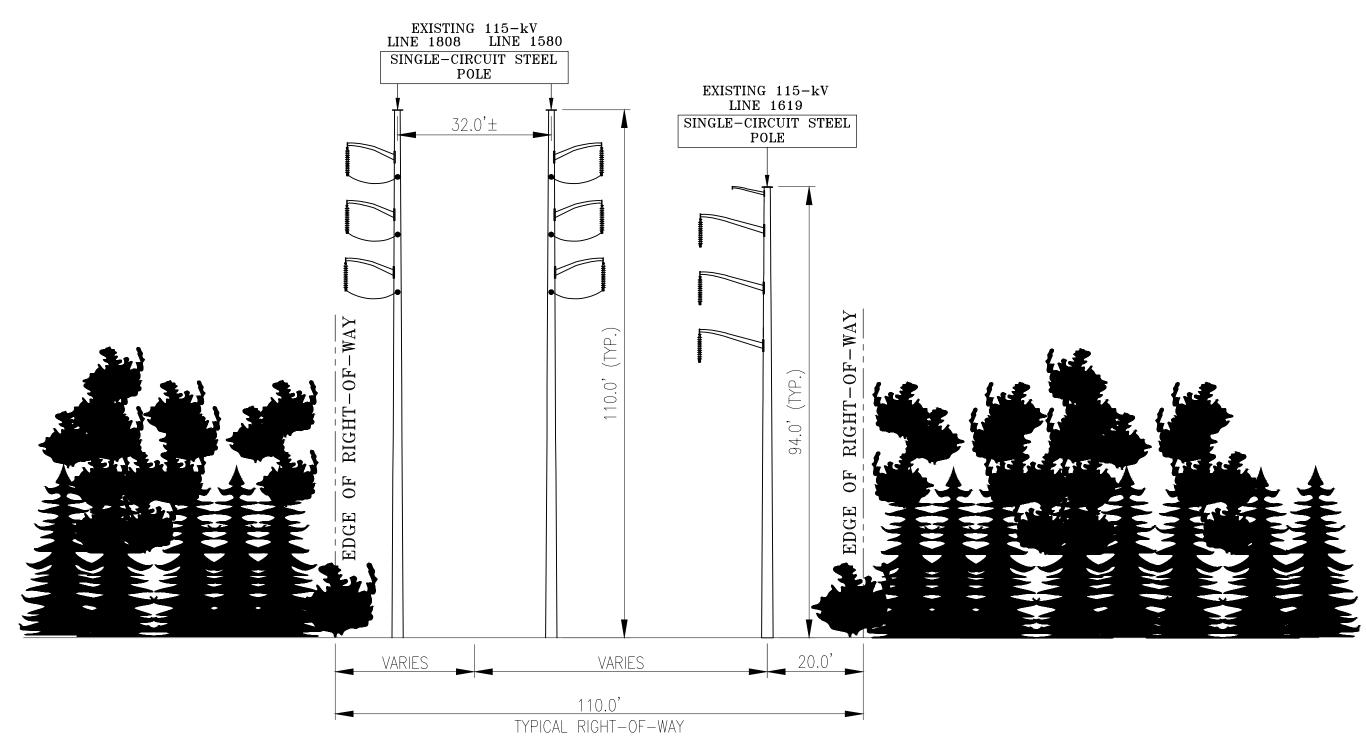
IN THE TOWN OF OXFORD, CT



## PROPOSED R.O.W. CONFIGURATION (TYPICAL)

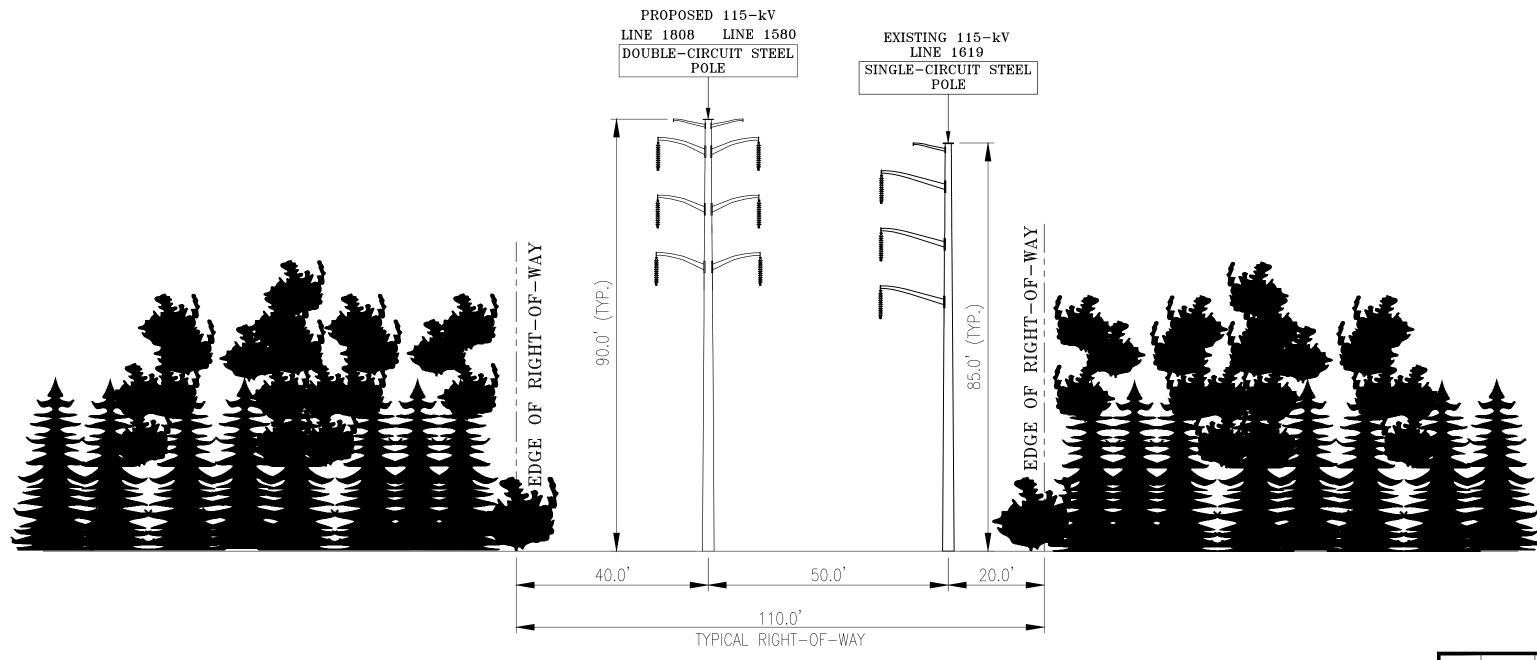
NO ADDITIONAL RIGHT-OF-WAY REQUIRED SINGLE-CIRCUIT STEEL MONOPOLE VERTICAL DESIGN LOOKING FROM STEVENSON S/S TO CHRISTIAN ST. JCT. IN THE TOWN OF OXFORD, CT

							E	VI	ERS			CE	_
						ΤΙ	STE STE		SON S/S TO	_			•
							_		5-kV TRAN				
								K.∪.W.	CROSS S		I (IYP	ICAL)	
						<u></u>		Louis	UXFC	RD, CT		1400	
						B	WKM/NV5	CHKD	DDM/NV5	APP DDI	M/NV5	APP	-
						DA	TE 01/17/24	DATE	01/17/24	DATE 01/	17/24	DATE	_
1	01/31/24	ISSUED FOR SITING REV. 1	JNR	HKG	HKG		SCALE NTS	SIZE	D	FIELD BOOK &	PAGES		
0	01/17/24	ISSUED FOR SITING	WKM	DDM	DDM	۷-	SCALE NTS	V.S.		R.E. DWG			
NO.	DATE	AS BUILT REVISIONS	BY	CHK		APP R.	. PROJ. NUMBER	•	131736	DWG NO.	012	52-850	00p002



## EXISTING R.O.W. CONFIGURATION (TYPICAL)

SINGLE-CIRCUIT STEEL MONOPOLE VERTICAL DESIGN LOOKING FROM STEVENSON S/S TO CHRISTIAN ST. JCT. IN THE TOWN OF OXFORD, CT



## PROPOSED R.O.W. CONFIGURATION (TYPICAL)

NO ADDITIONAL RIGHT-OF-WAY REQUIRED
DOUBLE-CIRCUIT/SINGLE-CIRCUIT STEEL MONOPOLE VERTICAL DESIGN
LOOKING FROM STEVENSON S/S TO CHRISTIAN ST. JCT.
IN THE TOWN OF OXFORD, CT

								E	VI	ERS			CE	_
							TITLE		11	SON S/S TO 5-kV TRAN	ISMISSI(	ON LIN	E	-
								R	.O.W.	CROSS S oxfo	SECTION rd, ct	l (TYP	'ICAL)	
							BY	WKM/NV5	CHKD	DDM/NV5	APP DD	M/NV5	APP	-
							DATE	01/17/24	DATE	01/17/24	DATE 01,	/17/24	DATE	_
1	01/31/24	ISSUED FOR SITING REV. 1	JNR	HKG	HKG		H-SCALE	NTS	SIZE	D	FIELD BOOK &	PAGES		
0	01/17/24	ISSUED FOR SITING	WKM	DDM	DDM		V-SCALE	NTS	V.S.		R.E. DWG			
NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP	K.E. PROJ	J. NUMBER		131736	DWG NO.	012	52-850	00p0

CSC Petition Eversource Energy

### Attachment D

### Wetland and Watercourse Delineations Technical Memorandum

#### Wetland Report:

#### Christian Street Junction to Stevenson Rebuild Project

To: Sara Fusco, PSS, CPESC; Eversource Energy

FROM: Richard Canavan, PhD, PSS, PWS and Jeremy Degler CWS, PWS, CWB; Tighe

& Bond

DATE: January 2, 2024

Tighe & Bond performed wetland and watercourse delineations in support of the Christian Street Junction to Stevenson Rebuild Project in September 2020 and March 2021. The wetlands limits were reviewed in 2023 during the development of the plans for this project.

Wetland and Watercourse Delineation Methodology

Wetlands and watercourses were delineated in accordance with the requirements of the Connecticut Inland Wetlands and Watercourses Act (§22a-38 CGS), and the U. S. Army Corps of Engineers Wetlands Delineation Manual (1987) Regional Supplement to the Corps of Engineers Wetland Delineation Manual Northcentral and Northeast Region (Version 2.0) (January 2012). The limits of the wetlands and watercourses were identified in the field by consecutively numbered flags. Pink "Wetland Delineation" flagging was used for delineating wetlands and blue flagging was used for delineating watercourses. Flag locations were surveyed at the time of the investigation using Global Positioning System (GPS) units capable of submeter accuracy. Wetlands were classified using the Cowardin System.

Delineated wetlands and watercourses within the Project Area are summarized in Table 1, and Army Corps of Engineers Wetland Determination Data Forms are attached.

#### Vernal Pool Summary

Tighe & Bond conducted a vernal pool survey within the Project Area and determined that there are no vernal pools present in the Christian Street Junction to Stevenson Substation Rebuild project area. One potential vernal pool was identified in Wetland W20; however, following a May 2023 survey, it was determined that this potential vernal pool is a decoy pool due to the lack of suitable attachment points for egg masses and shallow water depth. Decoy pools are bodies of water, often occurring in road ruts or man-made basins where the development and metamorphosis of larvae is unsuccessful. Decoy pools often lack vegetation for egg mass attachment and dry more rapidly than classic vernal pools. The decoy pool in Wetland W20 appears to have formed from repeated use of the space for offroad vehicle riding. Limited vegetation was observed in the pool, which was largely barren and disturbed. While wood frog and American toad tadpoles were observed in the pool, it was determined that the pool's conditions were not suitable for sustaining the tadpoles and allowing them to mature and leave the pool.

A larger wetland system extended outside of the right-of-way boundary, which appeared to be more suitable as a classic vernal pool with a variety of egg mass attachment points. It is possible that the wood frog and American toad tadpoles had migrated into the decoy pool from this location through the off-road vehicle ruts along the edge of the right-of-way.

TABLE 1
Delineated Wetlands and Watercourses within the Christian Street Junction to Stevenson Rebuild Project

Map Sheet No.	Wetland No. <sup>1</sup>	Determination Data Sheet Wetland No. <sup>2</sup>	Dominant NWI Class <sup>3</sup>	Other NWI Classes	Dominant Water Regime	Associated Watercourse <sup>4</sup>
1	W1	1436 1A	PSS	PEM	Seasonally Saturated	
1	W2	1435 1A 1	PSS	PEM	Seasonally Flooded/Saturated	S1
1	W3	1434 1A	PEM	PSS	Seasonally Flooded/Saturated	S2
1-2	W4	1434 1C	PEM	PSS	Seasonally Flooded	S2
2	W5	1580 Segment 4 W5	PSS	PEM	Seasonally Flooded	
2	W6	1580 Segment 4 W6	PSS	PEM	Seasonally Saturated	S3
2	W7	1430 2A JSC	PEM	PSS	Seasonally Flooded/Saturated	
2	W8	1430 1A	PEM	PSS	Seasonally Flooded/Saturated	
4	W9	1423 1A 3	PEM	PSS	Seasonally Flooded/Saturated	
4	-	-	R4SB4		Intermittent	S4
4	W10	1580 Segment 4 W10	PSS	PEM	Seasonally Flooded/Saturated	
4	W11	1580 Segment 4 W11	PEM		Seasonally Saturated	
5	W12	1580 Segment 4 W12	PEM	PSS	Seasonally Saturated	S5
5	W13	1418 W19	PSS		Seasonally Saturated	
5	W14	1418 W20	PSS	PEM	Seasonally Flooded/Saturated	S6
5	W15	1580 Segment 4 W15	PEM		Seasonally Flooded/Saturated	S7
5	W16	1580 Segment 4 W16	PEM		Seasonally Saturated	
6	W17	1415 W21	PEM	PSS	Seasonally Saturated	
6	W18	1413 1c 3	PEM	PSS	Seasonally Flooded	S8
7	W19	1409 1B 1 JSC	PSS		Seasonally Flooded	S9
8	W20	1406 1B 4 JSC	PSS	LUB	Seasonally Flooded/Saturated	unnamed waterbody
9	W21	1403 1B JSC	PEM		Seasonally Saturated	S10
9-10	W22	1399 1A JSC	PEM		Intermittently Flooded	
10	-	-	R3RB1		Perennial	S11
11	W23/24	204 W40	PFO	PEM	Seasonally Flooded/Saturated	S12, S13

<sup>&</sup>lt;sup>1</sup> Wetland No. refers to the number on the Map Set for the Christian Street Junction to Stevenson Rebuild Project

 $<sup>^{2}</sup>$  Data Sheet Wetland No. refers to the code assigned during delineation and referenced on the delineation data form

<sup>&</sup>lt;sup>3</sup> Wetlands classified according to Cowardin et al 1979; PEM= Palustrine Emergent Wetland; PSS= Palustrine Scrub-Shrub Wetland; PFO= Palustrine Forested Wetland; POW= Palustrine Open Water

<sup>&</sup>lt;sup>4</sup> Associated Watercourse refers to the identification number in the project map set

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	City/County: Ne	w Haven County	Sampling Date: 2020-09-22
Applicant/Owner: Eversource		State: Connecticu	
		nip, Range:	
Landform (hillslope, terrace, etc.): Depression			
Subregion (LRR or MLRA): R 144A Lat: 4	2000 Teller (001100 V	Lang: -73.1379016	Glope (70):
Soil Map Unit Name: 45B - Woodbridge fine sandy			
Are climatic / hydrologic conditions on the site typical for t			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site maj	showing sampling po	oint locations, transects,	important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Yes		mpled Area Wetland? Yes	_ No
Wetland Hydrology Present?		tional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a s		tional victaria official.	-
Drought			
Adjacent to mowed lawn			
HYDROLOGY			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	ors (minimum of two required)
Primary Indicators (minimum of one is required; check a		Surface Soil (	
	ater-Stained Leaves (B9)	Drainage Patt	
	quatic Fauna (B13)	Moss Trim Lir	
	arl Deposits (B15)		Vater Table (C2)
4	/drogen Sulfide Odor (C1)	Crayfish Burro	
<u> </u>	kidized Rhizospheres on Living	· · · —	s ble on Aerial Imagery (C9)
	esence of Reduced Iron (C4) ecent Iron Reduction in Tilled S		ressed Plants (D1)
	nin Muck Surface (C7)	Shallow Aquit	
	her (Explain in Remarks)		phic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	nor (Explain in Nomano)	FAC-Neutral	
Field Observations:			. 551 (2-5)
	epth (inches):		
	epth (inches):		
	epth (inches):	Wetland Hydrology Present	? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previous inspe	ections), if available:	
Remarks:			

	i.			Sampling Point: 1436 1A
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum	20	<u>∪pccics:</u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.00 (A/B)
3				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	20	= Total Co	ver	OBL species <u>40</u> x 1 = <u>40</u>
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $\frac{70}{20}$ x 2 = $\frac{140}{20}$
Cornus amomum	20		FACW	FAC species $\frac{20}{0}$ $x 3 = \frac{60}{0}$ FACU species $\frac{20}{0}$ $x 4 = \frac{60}{0}$
Lindera benzoin	20		FACW	FACU species $0$ $x = 4$ $0$ UPL species $0$ $x = 5$ $0$
3				Column Totals: 130 (A) 240 (B)
4				(,
5				Prevalence Index = B/A = 1.85
3				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation  ✓ 2 - Dominance Test is >50%
	40	= Total Co	ver	✓ 2 - Dominance Test is >50%  ✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft r )				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Persicaria sagittata	40		OBL	data in Remarks or on a separate sheet)
2. Symphyotrichum novae-angliae			FACW	Problematic Hydrophytic Vegetation¹ (Explain)
Eupatorium perfoliatum	10		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diamete
7				at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12	70			<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
20# -	70	= Total Co	ver	
Noody Vine Stratum (Plot size: 30 ft r )				
I				
2				
3				Hydrophytic Vegetation
4	^			Present? Yes No
4		= Total Co	/er	

SOIL Sampling Point: 1436 1A

Depth	Matrix	(	-	dox Featur	es		m the absence of ir	idiodioi o.,
(inches)	Color (moist)	%	Color (moist)	%	Type		<u>Texture</u>	Remarks
0 - 2	10YR 2/2	95	7.5YR 5/8	5	<u>C</u>	<u>PL</u>	Sandy Loam	
2 - 10	10YR 6/2	75	7.5YR 4/6	25	<u>C</u>	M	Loamy Sand	
10 - 16	10YR 2/1	90	5YR 4/6	10	<u>C</u>	M	Silt Loam	
-								
			-					
							·	
		<del></del>				_	·	
			_				·	
	_				_			
¹Type: C=C	oncentration D=D	enletion RM	– ————————————————————————————————————	MS-Mack		 Graine	<sup>2</sup> Location: Pl	=Pore Lining, M=Matrix.
Hydric Soil		repletion, rei	W-Reduced Watrix,	IVIO-IVIASK	eu Gariu V	Jiailis.		Problematic Hydric Soils <sup>3</sup> :
Black Hi Hydroge Stratified Depleted Thick Da Sandy N Sandy F Stripped Dark Su  3Indicators o Restrictive I Type: Ro	pipedon (A2) pistic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R of hydrophytic veget	) R, MLRA 149 etation and v	Polyvalue Be MLRA 149 — Thin Dark Su — Loamy Muck; — Loamy Gleye — Depleted Mai — Redox Dark S — Depleted Dar — Redox Depre	rface (S9) y Mineral ( d Matrix (F trix (F3) Surface (Fe k Surface essions (F8	(LRR R, F1) (LRR F2) 6) (F7)	MLRA 149E K, L)	Coast Prair 5 cm Mucky Dark Surface Polyvalue E Thin Dark S Iron-Manga Piedmont F Mesic Spoce Red Parent Very Shallc Other (Expl	(A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R) ry Peat or Peat (S3) (LRR K, L, R) re (S7) (LRR K, L) re (S7) (LRR K, L) re selow Surface (S8) (LRR K, L) re selow Surface (S9) (LRR K, L) re se Masses (F12) (LRR K, L, R) re r

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	City/County: Ox	ford	Sampling Date: 2020-09-22
Applicant/Owner: Eversource			t Sampling Point: 1435-1A-1
21.12	Section, Townsh		
Landform (hillslope, terrace, etc.): Depression			
Subregion (LRR or MLRA): R 144A La			
Soil Map Unit Name: 13 Walpole sandy loam		NWI classifica	
•			
Are climatic / hydrologic conditions on the site typical			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site r	map showing sampling po	int locations, transects,	important features, etc.
	No within a \	npled Area Vetland? Yes  ional Wetland Site ID: 1435 1A	
Remarks: (Explain alternative procedures here or in	, , ,	ional Welland Site ID. 1100 II.	
Drought			
HYDROLOGY			
Wetland Hydrology Indicators:			ors (minimum of two required)
Primary Indicators (minimum of one is required; che		Surface Soil (	
1 - 1	Water-Stained Leaves (B9)	<u>✓</u> Drainage Patt	
	_ Aquatic Fauna (B13)	Moss Trim Lir	T T T T T T T T T T T T T T T T T T T
	_ Marl Deposits (B15) _ Hydrogen Sulfide Odor (C1)	Dry-Season v	Vater Table (C2)
	_ Oxidized Rhizospheres on Living		s ble on Aerial Imagery (C9)
	Presence of Reduced Iron (C4)		ressed Plants (D1)
	Recent Iron Reduction in Tilled S		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquit	ard (D3)
	Other (Explain in Remarks)		phic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral	Fest (D5)
Field Observations:	5 4 4 1 2		
Surface Water Present? Yes No	_ , , , , ,		
Water Table Present? Yes No Saturation Present? Yes No		Wetland Hydrology Present	t? Yes No
(includes capillary fringe)		, 5	: 165 NO
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspe	ctions), if available:	
Remarks:			

<b>VEGETATION</b> – Use scientific names of plants.				Sampling Point: 1435-1A-1
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant		Dominance Test worksheet:
1. Acer rubrum	40	Species? ✓	FAC	Number of Dominant Species
2. Betula populifolia	20		FAC	That Are OBL, FACW, or FAC: 5 (A)
				Total Number of Dominant Species Across All Strata: 5 (B)
3				(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
5				That Are OBE, I ACW, SI I AC (A/B)
6				Prevalence Index worksheet:
7		. ——		Total % Cover of: Multiply by:
	60	= Total Cov	/er	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $\frac{40}{60}$ $\times 2 = \frac{80}{180}$
1. Sambucus nigra ssp. canadensis	20			FAC species $60$ $x 3 = 180$ FACU species $0$ $x 4 = 0$
2. Lindera benzoin	10		FACW	. / too opening // /
3. Sambucus nigra ssp. canadensis				UPL species $0$ $x = 0$ (B)  Column Totals: $100$ $(A)$ $260$
4	- ·			(2)
5				Prevalence Index = B/A = 2.60
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	30	= Total Cov	/or	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r )		- Total Cov	/ei	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	20		EA 0\4/	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Osmundastrum cinnamomeum			FACW	data in Remarks or on a separate sheet)
2. Symphyotrichum novae-angliae	10		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7	_			at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10	-			Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.	_			Woody vines – All woody vines greater than 3.28 ft in
12.	30	= Total Cov		height.
Woody Vine Stratum (Plot size: 30 ft r		- Total Cov	/ei	
,				
1				
2.				
3	_			Hydrophytic
4				Vegetation Present?  Yes No
	0	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOIL Sampling Point: 1435-1A-1

Profile Desc	cription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	n the absence o	f indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 - 10	10YR 2/1	100					Mucky Peat	
10 - 12	10YR 2/2	65	2.5Y 5/3	35	D	М	Silt Loam	
_								
			-					
-								
-								
				-				
		_		-				
	-							,
			· -					
-								
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RN	1=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		Í	,					or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)	•				rairie Redox (A16) (LRR K, L, R)
	istic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky N					ucky Peat or Peat (S3) (LRR K, L, R) rface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed			., <b>L</b> )		ue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	ce (A11)	Depleted Matrix		-)			rk Surface (S9) ( <b>LRR K, L</b> )
	ark Surface (A12)	<i>(</i> ( ( ( ) )	Redox Dark Su		)			nganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark					nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
-	Gleyed Matrix (S4)		Redox Depress		- /			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
-	Redox (S5)			( )				rent Material (F21)
-	l Matrix (S6)							allow Dark Surface (TF12)
	rface (S7) (LRR R,	MLRA 149	B)					explain in Remarks)
3Indicators o	f hydronhytic vegets	ation and w	etland hydrology mus	et he nres	ent unles	s disturbed	or problematic	
	Layer (if observed)		retiand hydrology mas	st be pies	CITE, UTILOS	3 disturbed	or problematic.	
Type:								
Depth (in	ches):						Hydric Soil F	Present? Yes <u>'</u> No
Remarks:	· · ·						I	

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

Project/Site: Line 1580: 2020	City/County: Oxfo	ord Samp	ling Date: 2020-09-22
Applicant/Owner: Eversource		State: Connecticut Sar	
CME ICC		o, Range:	
Landform (hillslope, terrace, etc.): Hillslope		_	
Subregion (LRR or MLRA): R 144A La		•	<u></u>
Soil Map Unit Name: 13 Walpole sandy loam		NWI classification: _	
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in Remarks	s.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" present	? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in Re	emarks.)
SUMMARY OF FINDINGS - Attach site r	map showing sampling poi	nt locations, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present?	No Is the Sam	pled Area	
	No within a W	etland? Yes No	o
Wetland Hydrology Present?		onal Wetland Site ID: 1434 1A	
Remarks: (Explain alternative procedures here or in	, , ,		
Drought			
HYDROLOGY			_
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil Cracks	1 1
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (	B10)
I	_ Aquatic Fauna (B13)	Moss Trim Lines (B	•
	Marl Deposits (B15)	Dry-Season Water	
ر .	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	-
	Oxidized Rhizospheres on Living	, ,	
	Presence of Reduced Iron (C4)	Stunted or Stressed oils (C6) Geomorphic Positio	` ,
	Recent Iron Reduction in Tilled So Thin Muck Surface (C7)	Shallow Aquitard (D	
	Other (Explain in Remarks)	Microtopographic R	·
Sparsely Vegetated Concave Surface (B8)	Cirio (Explain in Ternano)	FAC-Neutral Test (	
Field Observations:			
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No		Wetland Hydrology Present? You	es <u> </u>
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring	well perial photos previous inspec	tions) if available:	-
Describe Necorded Data (stream gauge, monitoring	well, aeriai priotos, previous irispec	tions), ii available.	
Remarks:			

<b>'EGETATION –</b> Use scientific names of plants				Sampling Point: 1434-1A
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
1 -				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5 6				
7				Prevalence Index worksheet:  Total % Cover of: Multiply by:
		= Total Co		OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15 ft r				FACW species 30 x 2 = 60
1. Viburnum dentatum	20	~	FAC	FAC species 20 x 3 = 60
Cornus amomum	10	~	FACW	FACU species $\frac{0}{2}$ $x = \frac{0}{2}$
3.				UPL species $\frac{0}{70}$ $x = \frac{0}{140}$
4				Column Totals: <u>70</u> (A) <u>140</u> (B)
5.				Prevalence Index = B/A = 2.0
3.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	000/	= Total Co	ver	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r )		. 514. 55		✓ 3 - Prevalence Index is ≤3.0¹
1. Osmundastrum cinnamomeum	20	~	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Symphyotrichum puniceum	20	~	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
3.				
4				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6.				
7				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
3.				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
		= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r )				
1.				
2				Hydrophytic
2				Hydrophytic Vegetation
1				

SOIL Sampling Point: 1434-1A

Profile Desc Depth	ription: (Describe Matrix	∍ to the de	pth needed to docur Redo	ment the ox Featur			n the absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0 - 5	10YR 3/1	95	7.5YR 4/6	5	С	PL	Sandy loam	Floodplain	
5 - 15	10YR 5/2	90	7.5YR 4/3	10	D	М	Sandy loam		
-									
		_		-					
				-					
						- ·			
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			·			<u> </u>			
			. <u></u>						
-		_		-					
<sup>1</sup> Type: C=Co	oncentration, D=De	pletion, RN	//=Reduced Matrix, M	 S=Maske	ed Sand G	rains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.	
Hydric Soil I		•	,					for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		e (S8) ( <b>LF</b>	RR R,		Muck (A10) (LRR K, L, MLRA 149B)	
Black His	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa	•	(LRR R. N	/ILRA 149E		Prairie Redox (A16) ( <b>LRR K, L, R</b> )  Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroge	n Sulfide (A4)		Loamy Mucky N	Mineral (F	-1) ( <b>LRR</b>		Dark Surface (S7) (LRR K, L)		
	Layers (A5)	.a. (A11)	Loamy Gleyed		2)		-	alue Below Surface (S8) (LRR K, L)	
	l Below Dark Surfa irk Surface (A12)	ce (ATT)	Depleted Matrix  ✓ Redox Dark Su		5)			Oark Surface (S9) ( <b>LRR K, L</b> ) langanese Masses (F12) ( <b>LRR K, L, R</b> )	
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (	(F7)			nont Floodplain Soils (F19) (MLRA 149B)	
	leyed Matrix (S4)		Redox Depress	ions (F8	)			Spodic (TA6) (MLRA 144A, 145, 149B)	
-	edox (S5) Matrix (S6)							arent Material (F21) Shallow Dark Surface (TF12)	
	face (S7) (LRR R,	MLRA 149	JB)				-	(Explain in Remarks)	
	hydrophytic vegeta ayer (if observed		vetland hydrology mus	st be pres	sent, unle	ss disturbe	d or problemation	<u>C.</u>	
Type:	ayer (II observed	,.							
Depth (inc	ches).						Hydric Soil	l Present? Yes <u>✓</u> No	
Remarks:	<u></u>		<del></del>						



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020		City/County: Oxford	Sa	Impling Date: 2020-09-24
Applicant/Owner: Eversource				
Investigator(s): SME,JSC		Section, Township, Range: _		
Landform (hillslope, terrace, etc.): De				
Subregion (LRR or MLRA): R 144A				
Soil Map Unit Name: 13 Walpole s				
•				
Are climatic / hydrologic conditions of				
Are Vegetation, Soil,			al Circumstances" pres	ent? Yes No
Are Vegetation, Soil,	or Hydrology naturally pro	oblematic? (If needed,	explain any answers in	n Remarks.)
SUMMARY OF FINDINGS -	Attach site map showing	ı sampling point locati	ons, transects, in	nportant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative proc		Is the Sampled Area within a Wetland?  If yes, optional Wetlard.)	<u></u>	No
Recent trimming				
Drought				
HYDROLOGY				
Wetland Hydrology Indicators:				s (minimum of two required)
Primary Indicators (minimum of one		<u>.</u>	Surface Soil Cra	
Surface Water (A1) High Water Table (A2)	<u>✓</u> Water-Stained <u> </u>		Drainage Patters Moss Trim Lines	
Saturation (A3)	Aquatic Fauria Marl Deposits (		Moss min Lines	
Water Marks (B1)	Hydrogen Sulfi		Crayfish Burrows	
Sediment Deposits (B2)		spheres on Living Roots (C3)		e on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Re		Stunted or Stres	
Algal Mat or Crust (B4)		duction in Tilled Soils (C6)	✓ Geomorphic Pos	sition (D2)
Iron Deposits (B5)	Thin Muck Surf		Shallow Aquitard	
Inundation Visible on Aerial Ima		in Remarks)	<u>✓</u> Microtopographi	T T
Sparsely Vegetated Concave S	Surface (B8)	1	FAC-Neutral Tes	st (D5)
Field Observations:	S No V Depth (inches	١.		
	B No _ Depth (inches			
	No V Depth (inches		Hydrology Present?	Yes No
(includes capillary fringe)				100
Describe Recorded Data (stream ga	auge, monitoring well, aerial photo	os, previous inspections), if av	ailable:	
Remarks:				

<b>EGETATION –</b> Use scientific names of plants.				Sampling Point: 1434 1C
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant Species?		Dominance Test worksheet:
1 Acer rubrum	20	Species :	FAC	Number of Dominant Species
···				That Are OBL, FACW, or FAC: 5 (A)
2				Total Number of Dominant Species Across All Strata: 5 (B)
3				(5)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
5				That Ale OBE, I ACW, SI I AC.
5				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	20	= Total Cov	er/er	OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $\frac{100}{20}$ $\times 2 = \frac{200}{60}$
1. Ilex verticillata	20		FACW	TAC species X 3 =
2. Lindera benzoin	20		FACW	17100 species X4
3. Symphyotrichum puniceum	10		OBL	UPL species $0$ $x = 0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
4				Column Totals (A) (B)
5				Prevalence Index = B/A = 2.00
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	/or	✓ 2 - Dominance Test is >50%
Jank Christian (District 5 ft r		- Total Cov	/ei	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft r )	60		EA 0\A/	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Impatiens capensis			FACW	data in Remarks or on a separate sheet)
2. Symphyotrichum puniceum	10		OBL	Problematic Hydrophytic Vegetation¹ (Explain)
3	<del></del>			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5	<u> </u>			Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diamete
7	<u> </u>			at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	70	= Total Cov	/or	height.
Woody Vine Stratum (Plot size: 30 ft r)		- Total Co	, CI	
· · · · · · · · · · · · · · · · · · ·				
1				
2				
3		-		Hydrophytic Vegetation
				Present? Yes No
4	0	= Total Cov		

SOIL Sampling Point: 1434 1C

Profile Desc	cription: (Describe	to the de	pth needed to docum	nent the	indicator	or confirn	m the absence of indicators.)
Depth	Matrix			x Feature	es		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0 - 12	10YR 2/1	100					Muck
12 - 16	10YR 6/2	75	7.5YR 4/6	25	С	<u>M</u>	Sandy Loam
							·
							·
							· <del></del> -
				<u> </u>			
				· ———			
							· <del></del>
							·
<sup>1</sup> Type: C=C Hydric Soil		letion, RN	1=Reduced Matrix, MS	S=Maske	d Sand G	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	v Surface	(SQ) (I <b>D</b>	D D	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)		(30) ( <b>LK</b>	ιχ ιχ,	Coast Prairie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa		LRR R, M	LRA 149B	
	en Sulfide (A4)		Loamy Mucky N				Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed I	Matrix (F2	2)		Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L, F
	Mucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain Soils (F19) (MLRA 149
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149)
	Redox (S5)						Red Parent Material (F21)
	d Matrix (S6) Irface (S7) ( <b>LRR R, N</b>	/ILRA 149	<b>B</b> )				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	. , ,		•	.4 1		a alian,la a al	
	Layer (if observed):		etland hydrology mus	st be pres	ent, unies	s disturbed	d or problematic.
Type:							
Depth (in	ches):						Hydric Soil Present? Yes No
Remarks:							

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1580 Segment	. 4	Citv/C	ounty: New Haven C	ounty	Sampling Date: 2023-12-15
Applicant/Owner: Eversource					t Sampling Point: 1580 Segment 4 W5
Investigator(s): Matt Regan			on, Township, Range:		· -
Landform (hillslope, terrace, etc Subregion (LRR or MLRA): R	.). <u>····α· ο··</u>	Local Tell	ei (concave, convex, no	3 139397	Slope (%)
Soil Map Unit Name: 60B - C					·
Are climatic / hydrologic conditi					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Norma	ll Circumstances" pr	resent? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	tic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDING	S – Attach site m	nap showing sam	pling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Prese	ent? Yes	No	Is the Sampled Area		
1		No	within a Wetland?	Yes	No
Wetland Hydrology Present?			If yes, optional Wetland	d Site ID: W5	
Remarks: (Explain alternative	e procedures here or in	a separate report.)			
Recent climate is v	vetter than nor	mal			
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface Soil C	Cracks (B6)
Surface Water (A1)		Water-Stained Leave	s (B9)	Drainage Patt	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lir	: :
Saturation (A3)		Marl Deposits (B15)	(0.1)		Vater Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1) es on Living Roots (C3)	Crayfish Burro	s ble on Aerial Imagery (C9)
Sediment Deposits (B2) Drift Deposits (B3)		Presence of Reduced			ressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reductio		Geomorphic F	
Iron Deposits (B5)		Thin Muck Surface (C		Shallow Aquit	
Inundation Visible on Aer		Other (Explain in Ren			phic Relief (D4)
Sparsely Vegetated Cond	cave Surface (B8)			✓ FAC-Neutral <sup>-</sup>	Test (D5)
Field Observations:					
Surface Water Present?	Yes No No				
Water Table Present?	Yes No No				
Saturation Present? (includes capillary fringe)	Yes No No			Hydrology Present	? Yes No
Describe Recorded Data (stre	am gauge, monitoring v	veii, aeriai pnotos, pre	vious inspections), if ava	allable:	
Remarks:					

	S.			Sampling Point: 1580 Segment 4 WS
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover			Dominance Test worksheet:
·		-		Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
				Total Number of Dominant
				Species Across All Strata: 4 (B)
				Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 75.00 (A/B
i				Prevalence Index worksheet:
•				Total % Cover of: Multiply by:
45.6	0	= Total Cov	er er	OBL species $\frac{5}{50}$ $x_1 = \frac{5}{100}$
Sapling/Shrub Stratum (Plot size: 15 ft r )	50		E A O \ A /	FACW species $50$ $x 2 = 100$ FAC species $20$ $x 3 = 60$
Alnus incana	_ 50		FACU	FACU species 30 x 4 = 120
Rosa multiflora	30		FACU	UPL species 0 x 5 = 0
Acer rubrum			FAC	Column Totals: 105 (A) 285 (B)
				Prevalence Index = B/A = 2.71
j				Hydrophytic Vegetation Indicators:
i				1 - Rapid Test for Hydrophytic Vegetation
	400	= Total Cov	·····	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r		- Total Cov	CI	3 - Prevalence Index is ≤3.0¹
Symplocarpus foetidus	5	V	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation¹ (Explain)
3.				
ı				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
3.				
·				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
l				Sapling/shrub – Woody plants less than 3 in. DBH
)				and greater than or equal to 3.28 ft (1 m) tall.
0				Herb – All herbaceous (non-woody) plants, regardless
1				of size, and woody plants less than 3.28 ft tall.
2				Woody vines – All woody vines greater than 3.28 ft in height.
	5	= Total Cov	er er	neight.
Voody Vine Stratum (Plot size: 30 ft r )				
<u> </u>				
3				Hydrophytic Vegetation
	•			Present? Yes No
1	0 :	= Total Co\	or	

SOIL Sampling Point: 1580 Segment 4 W5

Profile Desc	ription: (Describe	to the de	pth needed to docun	nent the	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> <u>Remarks</u>	
0 - 10	10YR 2/1	100					Muck	
10 - 20	10YR 4/1	95	10YR 4/4	5	С	<u>M</u>	Silty Clay Loam	
							· <del></del>	
							· - <u></u> <u></u> -	
							·	
							. <u> </u>	
-								
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RN	/=Reduced Matrix, MS	S=Masked	d Sand G	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Mat	rix.
Hydric Soil I	Indicators:						Indicators for Problematic Hydric S	Soils³:
Histosol ✓ Histic Er	(A1) pipedon (A2)		Polyvalue Belov MLRA 149B)		(S8) ( <b>LR</b>	R R,	<ul><li>2 cm Muck (A10) (LRR K, L, ML</li><li>Coast Prairie Redox (A16) (LRR</li></ul>	·
Black Hi			Thin Dark Surfa		LRR R, M	LRA 149B		
	n Sulfide (A4)		Loamy Mucky M				Dark Surface (S7) (LRR K, L)	, , ,
	l Layers (A5)		Loamy Gleyed N		2)		Polyvalue Below Surface (S8) (L	•
	d Below Dark Surfac	e (A11)	✓ Depleted Matrix				Thin Dark Surface (S9) (LRR K,	
	ark Surface (A12)		Redox Dark Sur	. ,			Iron-Manganese Masses (F12) (	·
-	lucky Mineral (S1)		Depleted Dark S		-7)		Piedmont Floodplain Soils (F19)	
	Sleyed Matrix (S4) Ledox (S5)		Redox Depressi	ions (F8)			Mesic Spodic (TA6) (MLRA 144) Red Parent Material (F21)	A, 145, 149B)
-	Matrix (S6)						Very Shallow Dark Surface (TF1)	2)
	rface (S7) ( <b>LRR R</b> , <b>N</b>	/ILRA 149	B)				Other (Explain in Remarks)	
<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and v	etland hydrology mus	t be pres	ent, unles	s disturbed	d or problematic.	
	_ayer (if observed):		, 0,				1	
Type:								
Depth (inc	ches):						Hydric Soil Present? Yes	No
Remarks:								

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

Project/Site: 1580 Segment	4	City/C	County: New Haven C	county Sa	ampling Date: 2023-12-15
Applicant/Owner: Eversource	<b></b>			State: Connecticut	Sampling Point: 1580 Segment 4 W6
Investigator(s): Matt Regan		Section			
Landform (hillslope, terrace, etc			·		
Subregion (LRR or MLRA): R					
Soil Map Unit Name: 38C - H					
Are climatic / hydrologic conditi		-			·
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Norma	al Circumstances" pres	ent? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed,	explain any answers i	n Remarks.)
SUMMARY OF FINDING	S – Attach sit	e map showing san	npling point location	ons, transects, ir	nportant features, etc.
Hydrophytic Vegetation Prese	ent? Ves	✓ No	Is the Sampled Area		
Hydric Soil Present?		✓ No	within a Wetland?	Yes	No
Wetland Hydrology Present?			If yes, optional Wetlan	d Site ID:	
Remarks: (Explain alternative			ii yes, optional wetian	u olic ib	
Recent climate cor	iditions are v	wetter than norn	nal.		
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum	of one is required; o	heck all that apply)		Surface Soil Cra	
Surface Water (A1)		Water-Stained Leave		Drainage Patter	ns (B10)
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines	
Saturation (A3)		Marl Deposits (B15)		Dry-Season Wa	· ·
Water Marks (B1)		Hydrogen Sulfide Od		Crayfish Burrow	
Sediment Deposits (B2)		Oxidized Rhizospher			e on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)		Presence of Reduced		Stunted or Stres Geomorphic Pos	
Iron Deposits (B5)		Recent Iron Reduction Thin Muck Surface (0)		Shallow Aquitare	
Inundation Visible on Aer	ial Imagery (B7)	Other (Explain in Rer	•	Microtopographi	
Sparsely Vegetated Cond		Out of (Explain in 10)	namo)	FAC-Neutral Tes	
Field Observations:					()
Surface Water Present?	Yes V No	Depth (inches): 4			
Water Table Present?		Depth (inches): 8			
Saturation Present?		Depth (inches): 0	Wetland	Hydrology Present?	Yes No
(includes capillary fringe)				-9-61-	
Describe Recorded Data (stre	am gauge, monitori	ing well, aerial photos, pre	evious inspections), if ava	allable:	
Remarks:					

<b>EGETATION –</b> Use scientific names of plants	٠.			Sampling Point: 1580 Segment 4 W6
Tree Stratum (Plot size: 30 ft r )	Absolute		nt Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2. 3.				Total Number of Dominant Species Across All Strata: 3 (B)
·				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 66.67 (A/B)
S				Prevalence Index worksheet:
'				Total % Cover of: Multiply by:
45.6	<u>U</u>	= Total Co	over	OBL species $\frac{0}{10}$ $x_1 = \frac{0}{20}$
Sapling/Shrub Stratum (Plot size: 15 ft r )				1 ACW species
Rosa multiflora	50		FACU	1 AC species X 3 =
2.		-		1700 species x +
3				OFL species X 3 =
				Column Totals (A) (B)
j				Prevalence Index = B/A = 3.44
S				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
′				✓ 2 - Dominance Test is >50%
- 6	30	= Total Co	over	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft r ) Solidago rugosa	30		FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
Onoclea sensibilis	10		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 -				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
5				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
)				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
1				of size, and woody plants less than 3.28 ft tall.
2				Woody vines – All woody vines greater than 3.28 ft in height.
Noody Vine Stratum (Plot size: 30 ft r	40	= Total Co	over	, and the second
l				
2.				
3.				Hydrophytic
				Vegetation Present? Yes No
t	0	= Total Co	over	riesent: iesNo
4	0	i otal o	3101	

SOIL Sampling Point: 1580 Segment 4 W6

Profile Desc	ription: (Describe	to the de	pth needed to docun	nent the	indicator	or confirm	n the absence of ir	ndicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 - 10	10YR 3/1	100	·				Silt Loam	
10 - 20	10YR 4/1	95	10YR 4/4	5	С	<u>M</u>	Silty Clay Loam	
			. <u></u>					
			. <u> </u>					
-								
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RN	/=Reduced Matrix, MS	= S=Masked	d Sand G	ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Hydric Soil I		,	,					Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,		(A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B) Thin Dark Surfa		IRRR M	I RA 149R		rie Redox (A16) ( <b>LRR K, L, R</b> ) y Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Loamy Mucky M					ce (S7) ( <b>LRR K, L</b> )
Stratified	l Layers (A5)		Loamy Gleyed I	Matrix (F2		,		Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	<u>✓</u> Depleted Matrix					Surface (S9) ( <b>LRR K, L</b> )
	ark Surface (A12)		Redox Dark Sur				-	anese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark S Redox Depress		-7)			Floodplain Soils (F19) ( <b>MLRA 149B</b> ) dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	ledox (S5)		Nedox Depressi	10115 (1-0)				t Material (F21)
_	Matrix (S6)							ow Dark Surface (TF12)
	rface (S7) ( <b>LRR R, I</b>	/ILRA 149	B)					lain in Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and v	etland hydrology mus	t be pres	ent, unles	s disturbed	d or problematic.	
	_ayer (if observed):			<u> </u>				
Type:								
Depth (inc	ches):						Hydric Soil Pres	sent? Yes No
Remarks:								



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

Project/Site: Line 1580: 2020	City/County: Oxfo	ord :	Sampling Date: 2020-09-24
Applicant/Owner: Eversource			Sampling Point: 1430 2A JSC
CME ICO	Section, Township		
Landform (hillslope, terrace, etc.): Depression		-	
Subregion (LRR or MLRA): R 144A Lat: 4	·	·	
Soil Map Unit Name: 3 Ridgebury, Leicester,nand \		<u> </u>	<del></del>
•		NWI classifica	
Are climatic / hydrologic conditions on the site typical for t	•		·
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally problematic? (	If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling poin	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	No. Is the Sam	pled Area	
Hydric Soil Present? Yes			No
Wetland Hydrology Present?		nal Wetland Site ID: 1430 2A	
Remarks: (Explain alternative procedures here or in a s	, , ,		
Drought			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum of one is required; check a	ll that apply)	Surface Soil C	
	ater-Stained Leaves (B9)	Drainage Patte	
	quatic Fauna (B13)	Moss Trim Lin	
A	arl Deposits (B15)		/ater Table (C2)
	ydrogen Sulfide Odor (C1) xidized Rhizospheres on Living F	Crayfish Burro	ws (C8) ble on Aerial Imagery (C9)
	resence of Reduced Iron (C4)		essed Plants (D1)
	ecent Iron Reduction in Tilled So		
	nin Muck Surface (C7)	Shallow Aquita	
	ther (Explain in Remarks)	Microtopograp	, ,
Sparsely Vegetated Concave Surface (B8)		✓ FAC-Neutral T	
Field Observations:			
	Depth (inches):		
Water Table Present? Yes No D	Depth (inches):		
	Pepth (inches):	Wetland Hydrology Present	? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well	l aerial photos, previous inspect	ions) if available:	
December Necestada Bata (etteam gaage, memtering wei	, dendi priotos, proviodo moposi	iono), ii avallabio.	
Remarks:			

•				Sampling Point: 1430 2A JSC
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum	40	<u>Species :</u> ✓	FAC	Number of Dominant Species
- Cogue grandifolio	10		FACU	That Are OBL, FACW, or FAC: 5 (A)
2. <u>ragus grandifolia</u> 3. <u> </u>				Total Number of Dominant Species Across All Strata: 6 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 83.33 (A/B)
6.				Duevelance Index weeksheets
7				Prevalence Index worksheet:
		= Total Cov	/er	OBL species 100 x 1 = 100
Sapling/Shrub Stratum (Plot size: 15 ft r )		10101 001	701	FACW species 25 x 2 = 50
A	40	~	OBL	FAC species 50 x 3 = 150
U			FACW	FACU species 10
				UPL species <u>0</u>
3			OBL	Column Totals: 185 (A) 340 (B)
4				D
5				Prevalence Index = B/A = 1.84
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	60	= Total Cov	/er	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	40	V	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Scirpus expansus	20		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Hypericum ascyron	10		FAC	
4. Bidens heterodoxa	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	7-	= Total Cov	/er	height.
Woody Vine Stratum (Plot size: 30 ft r				
· · · · · · · · · · · · · · · · · · ·				
1				
1 2				
1				Hydrophytic
1 2				Hydrophytic Vegetation Present?  Yes No

SOIL Sampling Point: 1430 2A JSC

Profile Desc	cription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	the absence of	indicators.)
Depth	Matrix	21		x Feature		. 2		
(inches) 5 - 0	Color (moist) 10YR 3/1	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Peat	Remarks
0 - 11	10YR 2/1	100					Mucky Peat	
11 - 16	10YR 5/1	80	7.5YR 5/8	20			Sandy Loam	
11 - 10	1011(3/1		7.511 3/6			171	Sandy Loani	
			· <del></del>					
					<u> </u>			
	-	-		-	-			
				<u> </u>				
			•	-	-			
	-	-						
		-						
				-	_			
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RN	/=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		,	,					Problematic Hydric Soils <sup>3</sup> :
Histosol	, ,		Polyvalue Belov		(S8) ( <b>LR</b>	R R,		k (A10) (LRR K, L, MLRA 149B)
	pipedon (A2) istic (A3)		MLRA 149B) Thin Dark Surfa	,	IRRR M	I RΔ 149R		irie Redox (A16) ( <b>LRR K, L, R</b> ) ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	en Sulfide (A4)		Loamy Mucky N					ace (S7) ( <b>LRR K</b> , <b>L</b> )
	d Layers (A5)		Loamy Gleyed		2)		Polyvalue	Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix					Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su				-	ganese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Depleted Dark					Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4) Redox (S5)		Redox Depress	sions (F8)				odic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) nt Material (F21)
-	Matrix (S6)							low Dark Surface (TF12)
	rface (S7) ( <b>LRR R, I</b>	VILRA 149	<b>9B</b> )					plain in Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	or problematic.	
	Layer (if observed)		, , ,		-		T	
Type:								.,
	ches):						Hydric Soil Pre	esent? Yes V No No
Remarks:								



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

Project/Site: Line 1580: 2020	City/County: Oxf	ord Sampling Date: 2020-09-2
Applicant/Owner: Eversource		State: Connecticut Sampling Point: 1430 1A
CME ICC		o, Range:
· · · ·		, convex, none): Concave Slope (%): 3-5
· · · · · · · · · · · · · · · · · · ·	,	Long: -73.1419876 Datum: NAD 83
Soil Map Unit Name: 3 Ridgebury, Leicester, an		NWI classification: PSS
Are climatic / hydrologic conditions on the site typical	•	
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site i	map showing sampling poi	int locations, transects, important features, etc
	No within a W	etland? Yes No
Wetland Hydrology Present? Yes   Remarks: (Explain alternative procedures here or in	, , ,	onal Wetland Site ID:
Drought		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che		Surface Soil Cracks (B6)
	Water-Stained Leaves (B9)	✓ Drainage Patterns (B10)
	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)  Water Marks (B1)	_ Marl Deposits (B15) _ Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
·	_ Oxidized Rhizospheres on Living	
	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	Recent Iron Reduction in Tilled So	
	Thin Muck Surface (C7)	Shallow Aquitard (D3)
✓ Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes No  (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	L ctions), if available:
Barrada		
Remarks:		

				Sampling Point: 1430 1A
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant Species?		Dominance Test worksheet:
1			Status	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2.			FAC	、,
3.				Total Number of Dominant Species Across All Strata:  4 (B)
4				Percent of Dominant Species
5			FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cov	/er	OBL species 100 x 1 = 100
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $65$ $\times 2 = 130$
1. Alnus incana	40		FACW	FAC species $\frac{10}{0}$ $\times 3 = \frac{30}{0}$
2. Ilex verticillata	20		FACW	FACU species $0$ $x = 0$ UPL species $0$ $x = 0$
3. Clethra alnifolia	10		FAC	Column Totals: 175 (A) 260 (B)
4. Salix nigra	10		OBL	
5				Prevalence Index = B/A = 1.49
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
	80	= Total Cov	/er	<ul> <li>✓ 2 - Dominance Test is &gt;50%</li> <li>✓ 3 - Prevalence Index is ≤3.0¹</li> </ul>
Herb Stratum (Plot size: 5 ft r )				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
<sub>1.</sub> Persicaria sagittata	40		OBL	data in Remarks or on a separate sheet)
2. Typha latifolia	40		OBL	Problematic Hydrophytic Vegetation¹ (Explain)
3. Scirpus expansus	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Bidens heterodoxa	_ <u>5</u>		FACW	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
00.6	95	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r )				
1				
				Hydrophytic
2 3				
				Vegetation Present? Yes No

SOIL Sampling Point: 1430 1A

		to the de	pth needed to docum			or confirm	n the absence of	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
6 - 0	10YR 3/1	100					Peat		
0 - 10	2.5Y 5/1	100					Silty Clay Loam		
10 - 24	10Y 6/1	70	5YR 4/6	30	С	М	Silty Clay		
_					_				
		_							
					_				
		_							
		_							
		_							
					_				
		_							
		oletion, RM	1=Reduced Matrix, MS	S=Masked	d Sand G	ains.		PL=Pore Lining, M=Matrix.	
Hydric Soil I Histosol			Polyvalue Below	v Surface	e (S8) (L <b>R</b>	R R.		for Problematic Hydric Soils <sup>3</sup> : luck (A10) (LRR K, L, MLRA 149B)	
Histic Ep	pipedon (A2)		MLRA 149B)				Coast F	Prairie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His	stic (A3) n Sulfide (A4)		Thin Dark Surface Loamy Mucky M					lucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L)	
Stratified	Layers (A5)		✓ Loamy Gleyed N	Matrix (F2		-, -,	Polyvalı	ue Below Surface (S8) ( <b>LRR K, L</b> )	
	l Below Dark Surfac irk Surface (A12)	ce (A11)	<ul><li>✓ Depleted Matrix</li><li>Redox Dark Sur</li></ul>		١		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)		
	lucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain Soils (F19) (MLRA 149B)		
	leyed Matrix (S4)		Redox Depressi	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	edox (S5) Matrix (S6)						Red Parent Material (F21) Very Shallow Dark Surface (TF12)		
	face (S7) ( <b>LRR R,</b> l	MLRA 149	<b>B</b> )					Explain in Remarks)	
<sup>3</sup> Indicators of	hvdrophytic vegeta	ntion and w	etland hydrology mus	t be pres	ent unles	s disturbed	d or problematic		
	ayer (if observed)						- or problematic		
Type:									
Depth (inc	ches):		<del></del>				Hydric Soil I	Present? Yes V No No	
Remarks:									



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	_ City/County: Oxford	5	Sampling Date: 2020-09-24
Applicant/Owner: Eversource			Sampling Point: 1423-1A-3
	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Depression			
Subregion (LRR or MLRA): R 144A Lat: 41.431915	3 Long: -73.	1479657	clope (%)
Are climatic / hydrologic conditions on the site typical for this time of	· - · · · · · · · · · · · · · · · · · ·	•	,
Are Vegetation, Soil, or Hydrology significant		Circumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, ex	cplain any answers	in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point location	ns, transects,	important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate represent)	within a Wetland? If yes, optional Wetland	·	
Drought			
HYDROLOGY			
Wetland Hydrology Indicators:	<u> </u>	Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	<u>')                                    </u>	Surface Soil C	racks (B6)
Surface Water (A1) Water-Staine		Drainage Patte	
High Water Table (A2) Aquatic Faun		Moss Trim Line	
Saturation (A3) Marl Deposits			ater Table (C2)
Water Marks (B1) Hydrogen Su Sediment Deposits (B2) Oxidized Rhiz		Crayfish Burro	ws (C8) ble on Aerial Imagery (C9)
· · · · /	Reduced Iron (C4)		essed Plants (D1)
	Reduction in Tilled Soils (C6)	Geomorphic P	* *
Iron Deposits (B5) Thin Muck St		Shallow Aquita	
Inundation Visible on Aerial Imagery (B7) Other (Explain		✓ Microtopograp	
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral T	est (D5)
Field Observations:			
Surface Water Present? Yes No Depth (inche	•		
Water Table Present? Yes No Depth (inches	es):		
Saturation Present? Yes No Depth (inche (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho		ydrology Present?	? Yes <u> </u>
Dosonbe Necorded Data (Stream gauge, monitoring well, aenai pho	ocos, previous inspections), ii avali	avic.	
Remarks:			

	S.			Sampling Point: 1423-1A-3
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1			Otatus	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7			-	Total % Cover of: Multiply by:  ORL species 90 v.1 = 90
0 15 (0) 1 0) 1 (0) 1 1 15 ft r		= Total Cov	er/	OBL species $90$ $x 1 = 90$ FACW species $10$ $x 2 = 20$
Sapling/Shrub Stratum (Plot size: 15 ft r )  1. Ilex verticillata	10	~	FACW	FAC species 0 x 3 = 0
Ludwigie elternifelie	10		OBL	FACU species $0 \times 4 = 0$
				UPL species 0 x 5 = 0
3				Column Totals: 100 (A) 110 (B)
4				Prevalence Index = B/A = 1.1
5				Hydrophytic Vegetation Indicators:
5			-	✓ 1 - Rapid Test for Hydrophytic Vegetation
7	000/	= Total Cov		✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r		- Total Cov	/ei	<u>✓</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Persicaria sagittata	60	<b>✓</b>	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Carex crinita	10		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Symphyotrichum puniceum	10		OBL	4
4				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
	80%	= Total Cov	/er	noight.
Woody Vine Stratum (Plot size: 30 ft r )				
1				
2				
3				Hydrophytic
J				Vegetation Present? Yes No
4				Present? Yes No

SOIL Sampling Point: 1423-1A-3

Color (moist)	Depth	Matrix	to the de	pth needed to docun Redo	x Features		or commi	ii tile abselice	of indicators.)
7-14			%				Loc <sup>2</sup>	<u>Texture</u>	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Thicators: Indicators for Problematic Hydric Soils*:  Indicators for Problematic Hydric Soils (F19) (MLRR K, L, R)  Depleted Below Dark Surface (R12)  Indicators for Problematic Hydric Soils (F19) (MLRR K, L, R)  Depleted Below Dark Surface (R12)  Indicators for Problematic Hydric Soils (F19) (MLRR 144A, 145, 149B)  Indicators for Problematic Hydric Soil Present? Yes No  Indicators for Problematic Hydric Soil Present? Yes No  No  Depth (Inches):	0 - 7	10YR 3/1	90	5YR 6/8	10	С	PL	Silt Loam	
Hydric Soil Indicators:    Histosol (A1)	7 - 14	2.5Y 3/1	80	7.5YR 4/6	20	С	PL	Sandy loam	
Hydric Soil Indicators:    Histosol (A1)	-								
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)		-							
Hydric Soil Indicators:    Histosol (A1)	-								
Hydric Soil Indicators:    Histosol (A1)			-						
Hydric Soil Indicators:    Histosol (A1)									
Hydric Soil Indicators:    Histosol (A1)		-							
Hydric Soil Indicators:    Histosol (A1)	1- 0.0							2,	
Histosol (A1)			etion, RN	1=Reduced Matrix, MS	3=Masked	Sand G	irains.		
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Similar Material (F2) Dark Surface (S7) (LRR R, MLRA 149B)  Slindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes  No No	-			Polyvalue Belov	w Surface	(S8) ( <b>LF</b>	RR R,		•
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Sandy Gleyed Matrix (S6) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) No Hydric Soil Present? Yes No No No No No No No	Histic Ep	pipedon (A2)		MLRA 149B)	)			Coast I	Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Stratified Layers (A5)								•	
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Shallow Dark Surface (TF12) Shallow Dark					-		K, L)		
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):			e (A11)		-	,			
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):									
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):						-7)			
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No				Nedox Depiess	10113 (1 0)				
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):	Stripped	Matrix (S6)						Very S	hallow Dark Surface (TF12)
Restrictive Layer (if observed):           Type:	Dark Sur	rface (S7) ( <b>LRR R, I</b>	VILRA 149	<b>JB</b> )				Other (	Explain in Remarks)
Restrictive Layer (if observed):           Type:	<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and w	etland hydrology mus	t be prese	ent, unle	ss disturbed	d or problematic	<u>;</u>
Depth (inches): No				, 0,		•		T	
	Type:								
Remarks:	Depth (inc	ches):						Hydric Soil	Present? Yes No
	Remarks:								_

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

Project/Site: 1580 Segment 4		City/C	ounty: New Have	n County Sam	npling Date: 2023-10-18
Applicant/Owner: Eversource				State: Connecticut Sa	ampling Point: 1580 segment 4 W10
Investigator(s): Matt Regan and	d Claire Esterma				
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): R 144 Soil Map Unit Name: 3 - Ridgebur Are climatic / hydrologic conditions	Lary, Leicester, and W s on the site typical	at: 41.4295648  /hitman soils, 0 to 8 perconstruction for this time of year? Y	Long: eent slopes, extreme es No	-73.1488982  ely stony NWI classification:  (If no, explain in Remar	Datum: WGS 84 :
Are Vegetation, Soil					
Are Vegetation, Soil	, or Hydrology	naturally problema	itic? (If need	led, explain any answers in f	Remarks.)
SUMMARY OF FINDINGS	- Attach site	map showing sam	pling point loc	ations, transects, imp	portant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative pr	YesYes	n a separate report.)	Is the Sampled Al within a Wetland' If yes, optional We		·
HYDROLOGY Wetland Hydrology Indicators:				Secondary Indicators (	minimum of two required)
Primary Indicators (minimum of c	one is required; che	eck all that apply)		Surface Soil Crack	(s (B6)
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial (Sparsely Vegetated Concavers)		Water-Stained Leaves Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C	or (C1) es on Living Roots ( I Iron (C4) n in Tilled Soils (C6)	Stunted or Stresse	B16) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2) (D3) Relief (D4)
	/es V No	Depth (inches): 0.5			
Water Table Present? Y	/es / No /es / No	Depth (inches): 18 Depth (inches): 10		and Hydrology Present? ` f available:	Yes No
Remarks:					

<b>/EGETATION –</b> Use scientific names of plants	S.			Sampling Point: 1580 segment 4 W10
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover		t Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2.				Total Number of Dominant Species Across All Strata: 6 (B)
3 4				Species Across All Strata: 6 (B)  Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.00 (A/B)
3			·	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Co	ver	OBL species 30 x 1 = 30
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $\frac{60}{5}$ $x_2 = \frac{120}{15}$
1. Alnus incana	50		FACW	1 AC species x 3 =
2. Rosa palustris	10		OBL	
Hamamelis virginiana			FACU	UPL species $0$ $x = 0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
l				Prevalence Index = B/A = 1.85
5 S				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7	0.5	-		✓ 2 - Dominance Test is >50%
	65	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
H <u>erb Stratum</u> (Plot size: <u>5 ft r</u> ) 1. Chelone glabra	15	V	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2 Impatiens capensis	5		FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. Osmundastrum cinnamomeum	_ <del>5</del>		FACW	replemate rijursprijus regetation (Explain)
4. Solidago rugosa	_ <del>5</del>		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
5. Symplocarpus foetidus			OBL	be present, unless disturbed or problematic.  Definitions of Vegetation Strata:
6				
7.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8			<u> </u>	Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10			<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
	35	= Total Co	ver	neight.
Woody Vine Stratum (Plot size: 30 ft r )				
1			<u> </u>	
2				
3				Hydrophytic
4				Vegetation Present? Yes ✓ No
	0	= Total Co	ver	

SOIL Sampling Point: 1580 segment 4 W10

Depth	Matrix	to the de	pth needed to docum	x Features		or commi	ii tile abselice	of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 18	10YR 3/1	100					Silty Clay Loam	
18 - 24	10YR 5/1	95	10YR 5/4	5	С	М	Loamy Sand	
		_						
		_	-					
			-					
-								
	-		-				-	
		_	· <del></del>					
-								
	-	_						
1Type: C=C	oncontration D-Dar	olotion DA	 /I=Reduced Matrix, MS		L Sand C	roino	2l contion	: PL=Pore Lining, M=Matrix.
Hydric Soil		Dietion, Ki	i-Reduced Matrix, MS	3-IVIASKEU	i Sanu G	Iallis.		for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surface	(S8) (LR	RR R,		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		MLRA 149B)	)				Prairie Redox (A16) ( <b>LRR K, L, R</b> )
	stic (A3)		Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky N Loamy Gleyed I	-		<b>N, L</b> )	·	surface (S7) ( <b>LRR K, L</b> ) lue Below Surface (S8) ( <b>LRR K, L</b> )
	d Below Dark Surfac	ce (A11)	Depleted Matrix	-	.,		-	ark Surface (S9) ( <b>LRR K, L</b> )
	ark Surface (A12)		Redox Dark Su					anganese Masses (F12) ( <b>LRR K, L, R</b> )
	Mucky Mineral (S1)		Depleted Dark S		7)			ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	ions (Fo)				Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) arent Material (F21)
	Matrix (S6)							hallow Dark Surface (TF12)
Dark Su	rface (S7) ( <b>LRR R,</b> I	MLRA 149	B)				Other (	(Explain in Remarks)
3Indicators of	f bydrophytic yogoto	tion and w	etland hydrology mus	t ha proof	ant unloc	a diaturbad	l or problematic	
	Layer (if observed)		retiand hydrology mus	t be prese	ent, unies	ss disturbed		
Type:	, (,							
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:								
Nomans.								

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1580 Segment	4	City/Co	ounty: New	Haven Coun	ity s	Sampling Date:	2023-10-18
Applicant/Owner: Eversource							
Investigator(s): Matt Regan a							
Landform (hillslope, terrace, etc							ne (%): 2
Subregion (LRR or MLRA): R 1							
Soil Map Unit Name: 3 - Ridget							
Are climatic / hydrologic condition					=		
							/ No
Are Vegetation, Soil							NO
Are Vegetation, Soil	, or Hydrology	naturally problema	itic? (	If needed, expla	ain any answers	in Remarks.)	
SUMMARY OF FINDING	S - Attach site m	nap showing sam	pling poi	nt locations	, transects, i	important fe	atures, etc.
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present?	Yes	No No		etland?	Yes		
Remarks: (Explain alternative	procedures here or in	a separate report.)					
Climate conditions							
HYDROLOGY Westland Hydrology Indicates				Soci	Indicato	/inimum of f	to a manufacid
Wetland Hydrology Indicator		المسمعة علمال المال			condary Indicato		two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9)  Drainage Patterns (B10)							
Surface Water (A1)  High Water Table (A2)		Water-Stained Leaves Aquatic Fauna (B13)	s (D9)		Moss Trim Line		
Saturation (A3)		Marl Deposits (B15)				ater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Crayfish Burrov		
Sediment Deposits (B2)		Oxidized Rhizosphere		Roots (C3)		ble on Aerial Ima	agery (C9)
Drift Deposits (B3)		Presence of Reduced				essed Plants (D1	
Algal Mat or Crust (B4)	_	Recent Iron Reduction	n in Tilled So	ils (C6)	Geomorphic Po	osition (D2)	
Iron Deposits (B5)		Thin Muck Surface (C	-		Shallow Aquita		
Inundation Visible on Aeri		Other (Explain in Rem	narks)	<del></del>	Microtopograpl		
Sparsely Vegetated Conc	ave Surface (B8)			<u> </u>	FAC-Neutral T	est (D5)	
Field Observations:	Var. Na. V	Don'th (book on)					
Surface Water Present?	Yes No No						
Water Table Present? Saturation Present?	Yes			Watland Hydr	ology Present?	Vos V	No
(includes capillary fringe)			_	_		163	NO
Describe Recorded Data (stream	am gauge, monitoring v	well, aerial photos, prev	vious inspect	ions), if availab	le:		
Remarks:							

Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1			·	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2.				
3				Total Number of Dominant Species Across All Strata: 4 (B)
4.				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
6				
7				Prevalence Index worksheet:
	^	= Total Cov		Total % Cover of:         Multiply by:           OBL species         35           x 1 = 35
Sapling/Shrub Stratum (Plot size: 15 ft r )		- Total Cov	761	FACW species $\frac{25}{x^2} = \frac{50}{x^2}$
1 Cornus alba	10	V	FACW	FAC species 45 x 3 = 135
2. Ilex verticillata			FACW	FACU species <u>0</u>
3				UPL species $\frac{0}{105}$ x 5 = $\frac{0}{000}$
				Column Totals: 105 (A) 220 (B)
4				Prevalence Index = B/A = 2.10
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	4-	= Total Cov	/er	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r )				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Solidago rugosa	40	~	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Lythrum salicaria	35	~	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Symphyotrichum lanceolatum	10		FACW	
4. Euthamia graminifolia	5		FAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	90	= Total Cov	/er	height.
Woody Vine Stratum (Plot size: 30 ft r )				
1.				
2.				
3.				Hydrophytic
4.				Vegetation
	0	= Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)			

Sampling Point: 1580 segment 4 W11

SOIL Sampling Point: 1580 segment 4 W11

		to the de	pth needed to docur			r or confirm	the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 12	2.5Y 3/1	100					Silty Clay Loam	
12 - 16	2.5Y 4/1	95	2.5Y 5/4	5	С	М	Sandy Clay Loam	
16 - 24	2.5Y 5/1	90	2.5Y 5/6	10	С	М	Sandy Clay Loam	
	-							
	-	_						
		_						
-		_						
<sup>1</sup> Type: C=Co		pletion, RN	/I=Reduced Matrix, MS	3=Maske	d Sand G	rains.		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	w Surface	(S8) ( <b>LF</b>	RR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)		MLRA 149B) Thin Dark Surfa	•	IRRR N	NI RA 149R'		Prairie Redox (A16) ( <b>LRR K, L, R</b> ) ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		Loamy Mucky N	Mineral (F	1) ( <b>LRR</b> I		Dark Sເ	urface (S7) ( <b>LRR K, L</b> )
	d Layers (A5)	oo (A11)	Loamy Gleyed		2)			ue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac ark Surface (A12)	ce (ATT)	Depleted Matrix Redox Dark Su		)			rk Surface (S9) ( <b>LRR K, L</b> ) nganese Masses (F12) ( <b>LRR K, L, R</b> )
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F	F7)		Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)				Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) rent Material (F21)
-	Matrix (S6)							nallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R,	MLRA 149	<b>9B</b> )				Other (E	Explain in Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegeta	ation and w	etland hydrology mus	st be pres	ent, unles	ss disturbed	or problematic.	
	_ayer (if observed)	):						
Type:	ches):						Hydric Soil F	Present? Yes No
Remarks:	ines).						11,4110 00111	1000iiii 100 ii0

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

Project/Site: 1580 Segment 4		City/C	county: New Haven	County Sar	mpling Date: 2023-10-18
Applicant/Owner: Eversource				State: Connecticut S	Sampling Point: 1580 segment 4 W12
Investigator(s): Matt Regan an	d Claire Esterm				
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): R 14 Soil Map Unit Name: 45B - Woo	<b>4A</b> L:	at: 41.4235948	Long: _	73.1518599	Datum: WGS 84
Are climatic / hydrologic conditions	s on the site typical	I for this time of year? Y	′es No <b>✓</b>	(If no, explain in Rema	irks.)
Are Vegetation, Soil					_
Are Vegetation, Soil				d, explain any answers in	
-	-		•		·
SUMMARY OF FINDINGS	- Attach site	map showing sam	npling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present' Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative processing the Climate conditions a	YesYesYes	n a separate report.)	Is the Sampled Are within a Wetland? If yes, optional Wetla		
HYDROLOGY					
				Socondary Indicators	(minimum of two required)
Wetland Hydrology Indicators		ack all that apply)			
Primary Indicators (minimum of o	•	Water-Stained Leave	c (RQ)	Surface Soil Crac Drainage Pattern	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines	
Saturation (A3)		Marl Deposits (B15)		Dry-Season Wate	
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)	Crayfish Burrows	
Sediment Deposits (B2)		Oxidized Rhizosphere		3) Saturation Vis ble	e on Aerial Imagery (C9)
Drift Deposits (B3)		_ Presence of Reduced		Stunted or Stress	, ,
Algal Mat or Crust (B4)		_ Recent Iron Reductio		Geomorphic Posi	
Iron Deposits (B5)		_ Thin Muck Surface (C	•	Shallow Aquitard	
Inundation Visible on Aerial		_ Other (Explain in Ren	narks)	Microtopographic	
Sparsely Vegetated Concav	e Surface (B8)			<u>✓</u> FAC-Neutral Tes	t (D5)
Field Observations: Surface Water Present?	vaa Na <b>V</b>	Depth (inches):			
		Depth (inches): 12			
		Depth (inches): 12	Wotlan	d Hydrology Present?	Yes No
(includes capillary fringe)		_ , , ,	_		1es No
Describe Recorded Data (stream	n gauge, monitorino	g well, aerial photos, pre	vious inspections), if a	available:	
Remarks:					

SOIL Sampling Point: 1580 segment 4 W12

Depth	Matrix		pth needed to docun Redo	x Features	S			,
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 - 2	10YR 2/1	100					Silty Clay Loam	
2 - 9	10YR 4/1	95	10YR 4/4	5	С	<u>M</u>	Silty Clay Loam	
9 - 24	10YR 5/1	75	10YR 5/6	25	С	_ <u>M</u>	Silty Clay Loam	
-		_						
					-			
<sup>1</sup> Type: C=Co	oncentration. D=De	epletion. RM	l=Reduced Matrix, MS	S=Masked	Sand C	rains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I								for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LF</b>	RR R,		luck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		_RR R, N	ILRA 149B		Prairie Redox (A16) ( <b>LRR K, L, R</b> ) lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	en Sulfide (A4)		Loamy Mucky N	∕lineral (F1	1) ( <b>LRR</b>		Dark Su	urface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa	οο (Λ11)	Loamy Gleyed I	-	)		-	ue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	ice (ATT)	<ul><li>✓ Depleted Matrix</li><li>Redox Dark Suit</li></ul>					ark Surface (S9) ( <b>LRR K, L</b> ) anganese Masses (F12) ( <b>LRR K, L, R</b> )
	Mucky Mineral (S1)		Depleted Dark S					ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5) Matrix (S6)							arent Material (F21) hallow Dark Surface (TF12)
	rface (S7) ( <b>LRR R,</b>	MLRA 149	<b>B</b> )					Explain in Remarks)
31	£ la , , al la , , , ti a , , , a			.4 h =				
	Layer (if observed		etland hydrology mus	t be prese	ant, unie:	ss disturbed		<u>·</u>
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes V No No
Remarks:								
ı								

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580		City/County: Oxfo	rd	Sampling Date: 2020-09-24
Applicant/Owner: Eversource				Sampling Point: 1418 W19
- : :	): Hillslope			
	44A Lat: 41.422119			
	dbridge fine sandy loam/ 84B Pa			
	ns on the site typical for this time of			
	or Hydrology significan			
Are Vegetation, Soil	, or Hydrology naturally	problematic? (I	f needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS	S – Attach site map showing	ng sampling poir	nt locations, transects,	, important features, etc.
Hydrophytic Vegetation Presen	nt? Yes 🔽 No	Is the Samp		
1	Yes V No		tland? Yes	No
Wetland Hydrology Present?	Yes No No		nal Wetland Site ID: 1418 W	19
Remarks: (Explain alternative	procedures here or in a separate re	port.)		
Drought				
Surrounded by mair	ntained lawn			
Surrounded by mail	italiieu lawii			
HYDROLOGY				
Wetland Hydrology Indicator	s:			tors (minimum of two required)
Primary Indicators (minimum of	f one is required; check all that appl	y)	Surface Soil	
Surface Water (A1)	Water-Staine		Drainage Pat	
High Water Table (A2)	Aquatic Fau	·	Moss Trim Li	
Saturation (A3)	Marl Deposit			Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen St	uilide Odor (CT) izospheres on Living F	Crayfish Burr	s ble on Aerial Imagery (C9)
Orift Deposits (B3)		Reduced Iron (C4)		ressed Plants (D1)
Algal Mat or Crust (B4)		Reduction in Tilled Soi		
Iron Deposits (B5)	Thin Muck S		Shallow Aqui	
Inundation Visible on Aeria			Microtopogra	phic Relief (D4)
Sparsely Vegetated Conca	ave Surface (B8)		FAC-Neutral	Test (D5)
Field Observations:	_			
	Yes No Depth (inch	,		
	Yes No Depth (inch			.,
Saturation Present? (includes capillary fringe)	Yes No Depth (inch	es):	Wetland Hydrology Presen	t? Yes No
	am gauge, monitoring well, aerial ph	otos, previous inspecti	ons), if available:	
Remarks:				
i terrains.				

<b>/EGETATION –</b> Use scientific names of plants.				Sampling Point: 1418 W19
Tree Stratum (Plot size: 30 ft r	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 60.00 (A/B)
5				Prevalence Index worksheet:
7	•			Total % Cover of: Multiply by:
45.6	0	= Total Cov	/er	OBL species $\frac{0}{45}$ $x = \frac{0}{90}$
Sapling/Shrub Stratum (Plot size: 15 ft r )				
1. Cornus amomum			FACW	100
2. Rosa multiflora	15		FACU	
Lonicera morrowii			FACU	UPL species $0$ $x = 5$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
l 5				Prevalence Index = B/A = 2.71
5				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
F. 4	40	= Total Cov	/er	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft r 1. Eupatorium perfoliatum	15	~	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	10		FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. Carex scoparia	5		FACW	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 5				be present, unless disturbed or problematic.
6.				Definitions of Vegetation Strata:
7				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12	20			<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30 ft r)		= Total Cov	/er	
· · · · · · · · · · · · · · · · · · ·				
				Hydrophytic
				Vegetation
	0	= Total Cov	/er	100 <u> </u>
1				Hydrophytic Vegetation Present?  Yes   V  No

SOIL Sampling Point: 1418 W19

Depth	ription: (Describe Matrix	to the de	oth needed to docun	n <b>ent tne i</b> x Features		r or confirm	n the absence of	of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 3/1	98	7.5YR 3/4	2	С	М	Loamy Sand	
8 - 11	10YR 3/2	85	10YR 5/2	5	D	М	Loamy Sand	
8 - 11			5YR 3/4	10	С	М	Loamy Sand	
-								
-								
	-						·	
							-	
							-	
-								
Type: C=Co		pletion, RM	=Reduced Matrix, MS	=Masked	Sand G	irains.		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	v Surface	(S8) ( <b>LF</b>	RR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		MLRA 149B)				Coast F	Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky M					ucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L)
Stratified	d Layers (A5)		Loamy Gleyed N	-		, -,	<del></del>	ue Below Surface (S8) ( <b>LRR K, L</b> )
	d Below Dark Surface	ce (A11)	Depleted Matrix					ark Surface (S9) (LRR K, L)
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dark Sur Depleted Dark S		7)			anganese Masses (F12) ( <b>LRR K, L, R</b> ) ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy G	Gleyed Matrix (S4)		Redox Depressi		,		Mesic S	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
✓ Sandy R  Stripped	Redox (S5) I Matrix (S6)							rent Material (F21) nallow Dark Surface (TF12)
	rface (S7) (LRR R,	MLRA 149	В)					Explain in Remarks)
<sup>3</sup> Indicators of	f hydronhytic yegets	ation and w	etland hydrology mus	t ha nracc	nt unle	se disturbac	l or problematic	
	Layer (if observed)		etiana nyarology mus	t be prese	int, unite	ss disturbed	TO Problematic.	
Type: Ro	ock							
Depth (inc	ches): 11						Hydric Soil I	Present? Yes V No No
Remarks:							-1	

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580		Citv/C	ounty: Oxford		Sampling Date: 2020-09-24	
Applicant/Owner: Eversource					Sampling Point: 1418 W20	
		Section	on, Township, Range: _			
Landform (hillslope, terrace, etc.):						
Subregion (LRR or MLRA): R 14						
Soil Map Unit Name: 84B Paxto						
Are climatic / hydrologic condition						
Are Vegetation, Soil						
Are Vegetation, Soil	, or Hydrology	naturally problema	itic? (If needed,	explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS	- Attach site m	nap showing sam	pling point locati	ons, transects,	important features, etc.	
Hydrophytic Vegetation Present Hydric Soil Present?		No _ No	Is the Sampled Area within a Wetland?	Yes	No	
Wetland Hydrology Present?	Yes 🔽	No	If yes, optional Wetlan	d Site ID: 1418 W	20	
Remarks: (Explain alternative p	rocedures here or in	a separate report.)				
Drought						
Alluvial						
Alluviai						
HYDROLOGY						
Wetland Hydrology Indicators	:			Secondary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of	one is required; chec	k all that apply)		Surface Soil (	Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves	s (B9)	Drainage Pat	terns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)		Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrogen Sulfide Odd		Crayfish Burre		
Sediment Deposits (B2)			es on Living Roots (C3)		s ble on Aerial Imagery (C9)	
Drift Deposits (B3)		Presence of Reduced			ressed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reduction		Geomorphic F		
Iron Deposits (B5) ✓ Inundation Visible on Aerial		Thin Muck Surface (C Other (Explain in Rem		Shallow Aquit	phic Relief (D4)	
Sparsely Vegetated Concav		Other (Explain in Ren	iaiks)	FAC-Neutral		
Field Observations:	ve Surface (Bo)			TAC-Neutral	Test (D0)	
	Yes No 🔽	Depth (inches):				
		Depth (inches):				
	Yes No No			Hydrology Present	t? Yes 🗸 No	
(includes capillary fringe)		, , , , , ,				
Describe Recorded Data (stream	n gauge, monitoring v	well, aerial photos, prev	vious inspections), if av	ailable:		
Remarks:						

<b>/EGETATION –</b> Use scientific names of plants				Sampling Point: 1418 W20		
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant Species?		Dominance Test worksheet:		
1		-		Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)		
2				Total Number of Dominant		
3				Species Across All Strata: 7 (B)		
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.43 (A/B		
5						
7				Prevalence Index worksheet:  Total % Cover of: Multiply by:		
	•	= Total Co				
Sapling/Shrub Stratum (Plot size: 15 ft r )		rotal oo	V 01	FACW species 30 x 2 = 60		
1. Lonicera morrowii	10	~	FACU	FAC species 10 x 3 = 30		
2 Salix discolor	10		FACW	FACU species 10 x 4 = 40		
3. Cornus amomum	5		FACW	UPL species $\frac{5}{25}$ $x = \frac{25}{105}$		
			171011	Column Totals: <u>65</u> (A) <u>165</u> (B)		
4				Prevalence Index = B/A = $\frac{2.54}{}$		
5				Hydrophytic Vegetation Indicators:		
5				1 - Rapid Test for Hydrophytic Vegetation		
7	00			✓ 2 - Dominance Test is >50%		
	30	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Herb Stratum (Plot size: 5 ft r )  1. Impatiens capensis	10	V	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
 2. Persicaria sagittata	10		OBL	Problematic Hydrophytic Vegetation¹ (Explain)		
Eupatorium perfoliatum	_ <del></del>	~	FACW			
4				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
5						
				Definitions of Vegetation Strata:		
6 7				Tree – Woody plants 3 in. (7.6 cm) or more in diamete		
B				at breast height (DBH), regardless of height.		
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
10				Herb – All herbaceous (non-woody) plants, regardless		
11				of size, and woody plants less than 3.28 ft tall.		
12				Woody vines – All woody vines greater than 3.28 ft in		
12.	25	= Total Co		height.		
Woody Vine Stratum (Plot size: 30 ft r		- Total Co	VEI			
Vitis riparia	10	<b>~</b>	FAC			
Celastrus orbiculatus	_ <del>10</del>		UPL			
			<u> </u>			
3				Hydrophytic Vegetation		
4				Present? Yes No No		
	<u>15</u> = Total Cover					

SOIL Sampling Point: 1418 W20

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the i	indicator	or confirn	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Domorko
(inches) 0 - 14	10YR 3/1	100	Color (moist)	%	Туре	LOC		Remarks  Alluvial Hydrogon gulfide
					·		Mucky Sand	AlluvialHydrogen sulfide
14 - 24	10YR 3/1	100					Sand	Hydrogen sulfide
-								
		<del></del>						
		<u> </u>						
-								
		·						
								-
		·						
-								
¹Type: C=Ce	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gra	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil			·					for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		(S8) ( <b>LRF</b>	RR,		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)		DD D M	DA 440D		Prairie Redox (A16) (LRR K, L, R)
	istic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky N					Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed	-		, –,	<del></del>	alue Below Surface (S8) ( <b>LRR K, L</b> )
	d Below Dark Surfac	e (A11)	Depleted Matrix					Park Surface (S9) ( <b>LRR K, L</b> )
	ark Surface (A12)		Redox Dark Su					langanese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark S Redox Depress		-7)			ont Floodplain Soils (F19) ( <b>MLRA 149B</b> ) Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
-	Redox (S5)		Nedox Bepress	10110 (1 0)				arent Material (F21)
-	Matrix (S6)						Very S	Shallow Dark Surface (TF12)
Dark Su	rface (S7) ( <b>LRR R, I</b>	/ILRA 149	3)				Other	(Explain in Remarks)
<sup>3</sup> Indicators o	f hydronhytic vegeta	tion and w	etland hydrology mus	t he nres	ent unless	: disturbed	l or problemation	
	Layer (if observed)		Starta Hydrology mac	n be pres		diotarbed	Tor probleman	·.
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes V No No
Remarks:			<del></del>					
Alluvial								

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1580 Segment 4	Citv/County: N	ew Haven County	Sampling Date: 2023-10-18		
Applicant/Owner: Eversource			Sampling Point: 1580 segment 4 W15		
Investigator(s): Matt Regan and Claire Esterman					
Landform (hillslope, terrace, etc.): Marsh Subregion (LRR or MLRA): R 144A Lat: 41.4	Local reliei (conca	ve, convex, none)	Slope (%)		
Soil Map Unit Name: 45B - Woodbridge fine sandy loa					
Are climatic / hydrologic conditions on the site typical for this t					
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed?	Are "Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology nat	turally problematic?	(If needed, explain any answer	s in Remarks.)		
SUMMARY OF FINDINGS - Attach site map sl	howing sampling p	oint locations, transects,	important features, etc.		
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  No  Yes  No  Remarks: (Explain alternative procedures here or in a sepa	within a	ampled Area Wetland? Yes  ptional Wetland Site ID:	No		
Climate conditions wetter than norma					
HYDROLOGY					
Wetland Hydrology Indicators:			tors (minimum of two required)		
Primary Indicators (minimum of one is required; check all that	at apply)	Surface Soil (			
	-Stained Leaves (B9)	Drainage Pat			
	ic Fauna (B13)		Moss Trim Lines (B16)  ✓ Dry-Season Water Table (C2)		
	Deposits (B15)				
	gen Sulfide Odor (C1) ed Rhizospheres on Livii	Crayfish Burr	s ble on Aerial Imagery (C9)		
	nce of Reduced Iron (C4)		ressed Plants (D1)		
	nt Iron Reduction in Tilled				
	Muck Surface (C7)	Shallow Aqui			
	(Explain in Remarks)		phic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		✓ FAC-Neutral	Test (D5)		
Field Observations:					
Surface Water Present? Yes No Depti	,	_			
Water Table Present? Yes No Deptl		_			
Saturation Present? Yes No Depti (includes capillary fringe)	·	_ Wetland Hydrology Presen	t? Yes No		
Describe Recorded Data (stream gauge, monitoring well, ae	riai priotos, previous irisp	dections), ii avaliable.			
Remarks:					

	Dominant Species?		Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 3 (B)
			That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
			Total Number of Dominant
			Species Across All Strata: 3 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.67 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	= Total Co	ver	OBL species $0 \times 1 = 0$
			FACW species $\frac{40}{35}$ $x_2 = \frac{80}{105}$
		FACU	1 AC species X 3 =
			FACU species $\frac{15}{0} \qquad x = 60$ UPL species $\frac{15}{0} \qquad x = 0$
			UPL species $0$ $x = 0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
			(2)
		·	Prevalence Index = B/A = 2.72
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
	= Total Co	ver	<ul> <li>✓ 2 - Dominance Test is &gt;50%</li> <li>✓ 3 - Prevalence Index is ≤3.0¹</li> </ul>
			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
			data in Remarks or on a separate sheet)
		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in
	= Total Co	ver	height.
			Hydrophytic
			Vegetation
		ver	Present? Yes No No
		= Total Co	= Total Cover  FACU  FAC  FACW  FACW

SOIL Sampling Point: 1580 segment 4 W15

Profile Desc	ription: (Describe	to the de	oth needed to docur	nent the	indicator	or confirn	n the absence of indicators.)
Depth	Matrix			x Feature	es		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0 - 12	10YR 3/1	100					Loam
12 - 20	10YR 4/1	95	10YR 4/4	5	С	М	Loamy Sand
20 - 24	10YR 4/1	90	10YR 4/4	10	С	М	Sand
-							
-					_		
-							
-							
-						-	
-							
¹Type: C=Co	oncentration, D=Dep	oletion, RM	l=Reduced Matrix, MS	S=Maske	d Sand G	rains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov		e (S8) ( <b>LR</b>	RR,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	oipedon (A2)		MLRA 149B)			U DA 440D	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	en Sulfide (A4)		Thin Dark Surfa Loamy Mucky N				3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed			<b>、</b> □ )	Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix		-/		Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)	- ( )	Redox Dark Su		)		Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
	lucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)			,			Red Parent Material (F21)
	Matrix (S6)						Very Shallow Dark Surface (TF12)
	rface (S7) ( <b>LRR R, I</b>	MLRA 149	<b>B</b> )				Other (Explain in Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	d or problematic.
Restrictive I	_ayer (if observed)	:					
Type:							Undrie Ceil Breezent? Ves V
Depth (inc	ches):						Hydric Soil Present? Yes No
Remarks:							

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

Project/Site: 1580 Segment	4	City/0	County: New Haven C	ounty Sam	npling Date: 2023-10-18
Applicant/Owner: Eversource	•			State: Connecticut S	ampling Point: 1580 segment 4 W16
Investigator(s): Matt Regan	and Claire Este				
Landform (hillslope, terrace, etc	c.): Marsh	Local rel	ief (concave, convex, no	ne): Concave	Slope (%): 2
Subregion (LRR or MLRA): R 1					Datum: WGS 84
Soil Map Unit Name: 45B - W	/oodbridge fine	e sandy loam, 3 to 8 pe	rcent slopes	NWI classification	:
Are climatic / hydrologic condition	ons on the site tyr	oical for this time of year? \	∕es No <b>✓</b>	(If no, explain in Remar	ks.)
Are Vegetation, Soil					
Are Vegetation, Soil				explain any answers in l	
					•
SUMMARY OF FINDING	S – Attach si	ite map showing san	npling point location	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Prese		✓ No	Is the Sampled Area		
Hydric Soil Present?		<u>✓</u> No	within a Wetland?	Yes	No
Wetland Hydrology Present?			If yes, optional Wetland	d Site ID:	
Remarks: (Explain alternative	procedures here	or in a separate report.)			
Climate conditions	are wetter	than normal.			
HYDROLOGY					
Wetland Hydrology Indicato					(minimum of two required)
Primary Indicators (minimum o	of one is required;			Surface Soil Cracl	
Surface Water (A1)		Water-Stained Leave		Drainage Patterns	· · · ·
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (	•
Saturation (A3)		Marl Deposits (B15)	I (C4)	Dry-Season Wate	
Water Marks (B1)		Hydrogen Sulfide Od		Crayfish Burrows	
Sediment Deposits (B2) Drift Deposits (B3)		<ul><li>Oxidized Rhizospher</li><li>Presence of Reduce</li></ul>		Saturation Vis ble Stunted or Stresse	on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction		Geomorphic Posit	
Iron Deposits (B5)		Thin Muck Surface (		Shallow Aquitard (	
Inundation Visible on Aeri	ial Imagery (B7)	Other (Explain in Re	•	Microtopographic	
Sparsely Vegetated Cond				FAC-Neutral Test	
Field Observations:					()
Surface Water Present?	Yes No	Depth (inches): .5			
Water Table Present?		Depth (inches): 4			
Saturation Present?		Depth (inches): 0	Wetland	Hydrology Present?	Yes No
(includes capillary fringe)					
Describe Recorded Data (stre	am gauge, monito	oring well, aerial photos, pre	evious inspections), if ava	ailable:	
Remarks:					

<b>/EGETATION –</b> Use scientific names of plants	S.			Sampling Point: 1580 segment 4 W16
Tree Stratum (Plot size: 30 ft r	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1		-		Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.				Total Number of Dominant
3				Species Across All Strata: 3 (B)
1				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.00 (A/B)
3				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Co	ver	OBL species $\frac{25}{20}$ $\times 1 = \frac{25}{20}$
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $\frac{30}{50}$ $\times 2 = \frac{60}{150}$
Cornus alba			FACW	FAC species $\frac{50}{0}$ $x_3 = \frac{150}{0}$
Ligustrum japonicum	10			FACU species $0$ $x = 0$ UPL species $0$ $x = 0$
3				Column Totals: 105 (A) 235 (B)
l				
5				Prevalence Index = B/A = 2.24
3				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	20	= Total Co	ver	<ul> <li>✓ 2 - Dominance Test is &gt;50%</li> <li>✓ 3 - Prevalence Index is ≤3.0¹</li> </ul>
Herb Stratum (Plot size: 5 ft r )				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Solidago rugosa	30		FAC	data in Remarks or on a separate sheet)
2. Euthamia graminifolia	20		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Juncus effusus	15		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Symphyotrichum lanceolatum	15		FACW	be present, unless disturbed or problematic.
<sub>5.</sub> Lythrum salicaria	10		OBL	Definitions of Vegetation Strata:
S. Verbena hastata	5		FACW	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
20.4	95	= Total Co	ver	
Noody Vine Stratum (Plot size: 30 ft r )				
l				
2				
3				Hydrophytic Vegetation
4	_			Present? Yes No
	0	= Total Co	ver 💮	

SOIL Sampling Point: 1580 segment 4 W16

Depth	Matrix		oth needed to docun Redox	x Features	i			,
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	10YR 3/1	100					Clay Loam	
8 - 24	10YR 5/1	100					Clay Loam	Rock at bottom
-								
	-							
-								
	-							
-								
1 <sub>Tymey</sub> C=C	ancentration D=Der	olotion DM	-Doduced Metrix MS		Cand Cr		21 acation	DI =Doro Lining M=Motrix
Hydric Soil		pietion, Riv	=Reduced Matrix, MS	<u>&gt;=iviasked</u>	Sand Gr	ains.		n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belov	v Surface (	(S8) ( <b>LRI</b>	RR,		Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	oipedon (A2)		MLRA 149B)		`	•		Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky M Loamy Gleyed M			, L)		Surface (S7) ( <b>LRR K, L</b> ) alue Below Surface (S8) ( <b>LRR K, L</b> )
	d Below Dark Surfac	e (A11)	Depleted Matrix					Dark Surface (S9) (LRR K, L)
	ark Surface (A12)	( )	Redox Dark Sur					langanese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark S		7)			nont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	Gleyed Matrix (S4)		Redox Depressi	ons (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5) I Matrix (S6)							arent Material (F21) Shallow Dark Surface (TF12)
	rface (S7) ( <b>LRR R, I</b>	MLRA 149	В)					(Explain in Remarks)
			etland hydrology mus	t be prese	nt, unles	s disturbed	l or problemation	C
	Layer (if observed)	:						
Type:			<u></u>				Hardela Oall	1 Duna 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Depth (inc	ches):						Hyaric Soil	Present? Yes No
Remarks:								

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

Project/Site: Line 1580 City/C	ounty: New Haven County Sampling Date: 2020-09-24
	State: Connecticut Sampling Point: 1415 W21
MIT DIV	on, Township, Range:
Landform (hillslope, terrace, etc.): Hillslope Local reli	
Subregion (LRR or MLRA): R 144A Lat: 41.4177246	
Soil Map Unit Name: 103 - Rippowam fine sandy loam	
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	
Are Vegetation, Soil, or Hydrology significantly disturb	oed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes V No	within a Wetland? Yes No
Wetland Hydrology Present? Yes V No	If yes, optional Wetland Site ID: 1415 W21
Remarks: (Explain alternative procedures here or in a separate report.)	ii yoo, opaana waana ole ib.
Drought	
Next to utility structure and access road	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odd	
Sediment Deposits (B2) Oxidized Rhizosphere	es on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	I Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Demarks	
Remarks:	
Drought	

<b>/EGETATION –</b> Use scientific names of plants	<b>5.</b>			Sampling Point: 1415 W21
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)
2				That Are OBL, FACW, or FAC: 8 (A)
3				Total Number of Dominant Species Across All Strata: 9 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 88.89 (A/B
6				Prevalence Index worksheet:
7		= Total Co	·or	Total % Cover of:  OBL species 20  X 1 = 20
Sapling/Shrub Stratum (Plot size: 15 ft r )	<u> </u>	- Total Co	vei	FACW species 20 x 2 = 40
_	5	V	FACW	FAC species 5 x 3 = 15
			FACW	FACU species 5 x 4 = 20
		<u> </u>	FACU	UPL species 0 x 5 = 0
**		-	FACO	Column Totals: <u>50</u> (A) <u>95</u> (B)
4				Prevalence Index = B/A = 1.90
5				
6				Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
7		-		✓ 2 - Dominance Test is >50%
	15	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r )				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Impatiens capensis	10		FACW	data in Remarks or on a separate sheet)
2. Juncus effusus	_ <u>5</u>		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Lythrum salicaria			OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Persicaria sagittata	5		OBL	be present, unless disturbed or problematic.
5. Scirpus cyperinus	5		OBL	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diamete
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	30	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r )				
1. Vitis riparia	5	~	FAC	
2.		'		
3.				Hydrophytic
4				Vegetation
	_	= Total Co	er	Present? Yes No
	-	- Total Oo	VCI	

SOIL Sampling Point: 1415 W21

Profile Desc	ription: (Describe	to the de	oth needed to docur	nent the	indicator	or confirm	n the absence of	indicators.)
Depth	Matrix			x Feature	es _ 1	. 2		
(inches) 0 - 12	Color (moist) 10YR 3/1	<u> </u>	Color (moist) 10YR 4/2	<u>%</u> 10	Type <sup>1</sup>	Loc <sup>2</sup>	Texture  Loamy Sand	Remarks
0 - 12	1011 3/1	- 65		5			Loanly Sand	
0 - 12			2.5YR 3/6	3	<u>C</u>	M		
				-		-		
				-				
				-		-		
				-				
1Tyme: C=C		lation DM	=Reduced Matrix, M		d Cond C		21 continu	PL=Pore Lining, M=Matrix.
Hydric Soil		netion, Riv	-Reduced Matrix, Mi	3-Maske	u Sanu G	all 15.		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		e (S8) ( <b>LR</b>	R R,		ck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black Hi	oipedon (A2) stic (A3)		MLRA 149B Thin Dark Surfa	•	LRR R. M	LRA 149E		airie Redox (A16) ( <b>LRR K, L, R</b> ) cky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		Loamy Mucky N					face (S7) ( <b>LRR K, L</b> )
	d Layers (A5)		Loamy Gleyed		2)			e Below Surface (S8) ( <b>LRR K, L</b> )
	d Below Dark Surfac	e (A11)	Depleted Matrix					k Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su					ganese Masses (F12) ( <b>LRR K, L, R</b> )
-	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark Redox Depress					t Floodplain Soils (F19) ( <b>MLRA 149B</b> ) oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Redox (S5)		Nedox Depress	510113 (1 0 <i>)</i>				ent Material (F21)
-	Matrix (S6)							allow Dark Surface (TF12)
	rface (S7) ( <b>LRR R, I</b>	VILRA 149	<b>B</b> )					xplain in Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegeta	tion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	d or problematic.	
	_ayer (if observed)	:						
Type: Bo								10 Y Y Y
Depth (inc	ches): <u>12</u>						Hydric Soil Pr	resent? Yes V No No
Remarks:								
Bouldery	y hummocks							

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	)	Citv/C	county: Oxford		Sampling Date: 2020-09-25		
Applicant/Owner: Eversource					icut Sampling Point: 1413-1c-3		
Investigator(s): SME, JSC		Section		ange:			
Landform (hillslope, terrace, etc.							
Subregion (LRR or MLRA): R 1							
Soil Map Unit Name: 103 Ripp					fication: PSS		
Are climatic / hydrologic condition							
					' present? Yes No		
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If n	eeded, explain any answ	ers in Remarks.)		
SUMMARY OF FINDING	S - Attach site m	nap showing sam	pling point	locations, transect	s, important features, etc.		
Hydrophytic Vegetation Preser Hydric Soil Present?	Yes 🔽	No _ No	Is the Sample within a Wetla		No		
Wetland Hydrology Present?	Yes	No	If yes, optional	Wetland Site ID: 1413 1	IC		
Drought							
HYDROLOGY							
Wetland Hydrology Indicator	's:			Secondary Indic	cators (minimum of two required)		
Primary Indicators (minimum o	of one is required; chec	k all that apply)		Surface So	il Cracks (B6)		
Surface Water (A1)	_	Water-Stained Leaves	s (B9)	Drainage P	atterns (B10)		
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim			
Saturation (A3)		Marl Deposits (B15)			Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrogen Sulfide Odd		Crayfish Bu			
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized Rhizosphere	•	· · —	Vis ble on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Presence of Reduced Recent Iron Reduction			Stressed Plants (D1) ic Position (D2)		
Iron Deposits (B5)		Thin Muck Surface (C		Shallow Aq			
Inundation Visible on Aeria		Other (Explain in Rem			raphic Relief (D4)		
Sparsely Vegetated Conca	• • • —	- ( )	,	FAC-Neutra			
Field Observations:							
Surface Water Present?	Yes No						
Water Table Present?		Depth (inches):					
Saturation Present?	Yes _ V No	Depth (inches): 0	w	etland Hydrology Prese	ent? Yes V No No		
(includes capillary fringe)  Describe Recorded Data (streat	am gauge, monitoring v	well, aerial photos, pre	vious inspection	s), if available:			
Remarks:							

	ts.			Sampling Point: 1413-1c-3
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2.				Total Number of Dominant Species Across All Strata: 5 (B)
3				(E)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80 (A/B)
6				
				Prevalence Index worksheet:  Total % Cover of: Multiply by:
		= Total Co		Total % Cover of: Multiply by:  OBL species 60 x 1 = 60
Sapling/Shrub Stratum (Plot size: 15 ft r )		rotal oo	701	FACW species 10 x 2 = 20
1. Lonicera japonica	20	~	FACU	FAC species $0   x 3 = 0$
2. Ilex verticillata			FACW	FACU species 20 x 4 = 80
				UPL species <u>0</u>
3				Column Totals: 90 (A) 160 (B)
4				Prevalence Index = B/A = 1.8
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	000/			✓ 2 - Dominance Test is >50%
F. 4	30%	= Total Co	/er	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft r 1. Persicaria sagittata	20	~	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Symphyotrichum puniceum	20		OBL	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Typho latifolio				1 Toblematic Hydrophytic Vegetation (Explain)
			OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
	60%	= Total Co	/er	
Woody Vine Stratum (Plot size: 30 ft r )				
1				
2				
				Hydrophytic
3.				Vegetation
				Present? Yes No No

SOIL Sampling Point: 1413-1c-3

Profile Desc	cription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	m the absence of indicators.)	
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	
0 - 4	10YR 2/1	100					Loam	
4 - 14	10YR 4/2	80	5YR 5/6	20	С	PL	Sandy loam	
-								
					-			
					_			
	-	<del>-</del> -		<del> </del>	-		·	
					_		·	
			· -					
-								
					-			
	-	<del>-</del> -		<del> </del>	-		·	
			·				·	
			· -					
		oletion, RN	/I=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		IRRR M	I RΔ 149R	<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, I</li> </ul>	R)
	en Sulfide (A4)		Loamy Mucky N				Dark Surface (S7) (LRR K, L)	••)
	d Layers (A5)		Loamy Gleyed		2)	•	Polyvalue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac	e (A11)	<u>✓</u> Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)	
	ark Surface (A12)		Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L,	
-	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark S Redox Depress				Piedmont Floodplain Soils (F19) (MLRA 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14	
-	Redox (S5)		Redox Depress	10113 (1 0)			Red Parent Material (F21)	<i>)</i>
-	l Matrix (S6)						Very Shallow Dark Surface (TF12)	
Dark Su	rface (S7) ( <b>LRR R</b> , I	MLRA 149	OB)				Other (Explain in Remarks)	
3Indicators of	f hydrophytic yogota	tion and w	etland hydrology mus	t ha proc	ont unloc	e dieturboo	d or problematic	
	Layer (if observed)		venand hydrology mus	t be pres	ent, unies	s disturbed	d or problematic.	
Type:	, (,							
	ches):						Hydric Soil Present? Yes No	
Remarks:	,							

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

Project/Site: Line 1580: 2020	City/County: Oxfo	ord Sampling	<sub>d Date:</sub> 2020-09-25
Applicant/Owner: Eversource		State: Connecticut Sampl	
01.45 10.0		o, Range:	
Landform (hillslope, terrace, etc.): Depression			
Subregion (LRR or MLRA): R 144A Lat:	•	Long:73.1596589	
Soil Map Unit Name: 13 Walpole sandy loam		<u> </u>	<u> </u>
		NWI classification: PS	<u> </u>
Are climatic / hydrologic conditions on the site typical fo	•		,
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" present?	Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in Rema	arks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling poi	nt locations, transects, impor	tant features, etc.
Hydrophytic Vegetation Present?	No Is the Sam	pled Area	
	110	etland? Yes No _	
Wetland Hydrology Present? Yes		onal Wetland Site ID: 1409 1B	
Remarks: (Explain alternative procedures here or in a	, , ,		
Drought			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (mini	mum of two required)
Primary Indicators (minimum of one is required; check		Surface Soil Cracks (B	-
·	Water-Stained Leaves (B9)	<u>✓</u> Drainage Patterns (B1	·
	Aquatic Fauna (B13)	Moss Trim Lines (B16)	
	Marl Deposits (B15)	Dry-Season Water Tab	
	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Crayfish Burrows (C8)  Roots (C3)  Saturation Vis ble on A	
	Presence of Reduced Iron (C4)	Stunted or Stressed Pl	
	Recent Iron Reduction in Tilled So		` '
	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
	Other (Explain in Remarks)	✓ Microtopographic Relie	
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)	l
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
	Depth (inches):	Wetland Hydrology Present? Yes	No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring w	ell. aerial photos, previous inspec	tions). if available:	
( 3 3 ,	, , , , , ,	,	
Remarks:			

<del></del>	Number of Dominant Species   That Are OBL, FACW, or FAC:   5
otal Cover  FF  V OI	That Are OBL, FACW, or FAC: 5 (A  Total Number of Dominant Species Across All Strata: 5 (B  Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 30 x1 = 30 FACW species 50 x2 = 100 FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 80 (A) 130 (A)  Prevalence Index = B/A = 1.63
otal Cover  FA  V FA  V OI	Species Across All Strata: 5
otal Cover  V FA  V OI	That Are OBL, FACW, or FAC: 100.00 (A  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 30 x 1 = 30 FACW species 50 x 2 = 100 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 80 (A) 130 (A)  Prevalence Index = B/A = 1.63
otal Cover  FF  V OI	Prevalence Index worksheet:   Total % Cover of:
v FA v OI	Total % Cover of:   Multiply by:
<ul> <li>✓ FA</li> <li>✓ OI</li> </ul>	OBL species 30
<ul> <li>✓ FA</li> <li>✓ OI</li> </ul>	FACW species 50
V FA	FAC species 0 x 3 = 0  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 80 (A) 130 (Prevalence Index = B/A = 1.63
V FA	FACU species $0$ $x = 0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
<b>У</b> ОІ	UPL species $0 \times 5 = 0$ Column Totals: $80 \times 5 = 0$ Prevalence Index = B/A = $1.63$
	Column Totals: <u>80</u> (A) <u>130</u> (  Prevalence Index = B/A = <u>1.63</u>
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
otal Cover	✓ 3 - Prevalence Index is ≤3.0¹
OI	4 - Morphological Adaptations <sup>1</sup> (Provide suppor
	<u>ACW</u> Problematic Hydrophytic Vegetation¹ (Explain)
	Indicators of hydric soil and wetland hydrology mus
	be present, unless disturbed or problematic.
<u>OI</u>	Definitions of Vegetation Strata:
	Tree – Woody plants 3 in. (7.6 cm) or more in diame
	Sapling/shrub – Woody plants less than 3 in. DBH
	and greater than or equal to 3.28 ft (1 m) tall.
	Herb – All herbaceous (non-woody) plants, regardle
	of size, and woody plants less than 3.28 ft tall.
	Woody vines – All woody vines greater than 3.28 ft
-1-1-0	height.
otal Cover	
	Hydrophytic
	Vegetation Present? Yes No
otal Cover	
	Of Office of the Control of the Cont

SOIL Sampling Point: 1409 1B 1 JSC

Profile Desc	ription: (Describe	to the de	pth needed to docun	nent the	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Rema	arks
0 - 12	10YR 2/1	100					Silt Loam	
12 - 18	10YR 6/1	85	10YR 5/8	15	<u>C</u>	M	Silt Loam	
	-		· -					
			·					
			. <u>.</u>		_			
			· ·					
-								
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RN	/I=Reduced Matrix, MS	S=Maske	d Sand G	ains.	<sup>2</sup> Location: PL=Pore Lining, M	I=Matrix.
Hydric Soil I							Indicators for Problematic Hy	
Histosol			Polyvalue Belov		e (S8) ( <b>LR</b>	R R,	2 cm Muck (A10) ( <b>LRR K</b> , I	
Histic Ep	oipedon (A2)		MLRA 149B) Thin Dark Surfa		IDDD M	I DA 140B	<ul><li>Coast Prairie Redox (A16)</li><li>5 cm Mucky Peat or Peat (\$\frac{1}{2}\$</li></ul>	
	en Sulfide (A4)		Loamy Mucky N				Dark Surface (S7) (LRR K,	
	d Layers (A5)		Loamy Gleyed I			, ,	Polyvalue Below Surface (\$	·
<u>✓</u> Depleted	d Below Dark Surfac	e (A11)	Depleted Matrix	(F3)			Thin Dark Surface (S9) (LR	RR K, L)
Thick Da	ark Surface (A12)		Redox Dark Sui	rface (F6	)		Iron-Manganese Masses (F	-12) ( <b>LRR K, L, R</b> )
_	lucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain Soils	
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA	144A, 145, 149B)
-	Redox (S5)						Red Parent Material (F21)	/ <b></b>
	Matrix (S6) rface (S7) ( <b>LRR R, N</b>	/ILRA 149	<b>)B</b> )				<ul><li>Very Shallow Dark Surface</li><li>Other (Explain in Remarks)</li></ul>	
								<u> </u>
	f hydrophytic vegeta Layer (if observed):		etland hydrology mus	t be pres	ent, unles	s disturbed	or problematic.	
Type:								
Depth (inc	ches):						Hydric Soil Present? Yes	No
Remarks:								

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

Project/Site: Line 1580: 2020	City/County: Ox1	<sup>:</sup> ord	Sampling Date: 2020-09-25
Applicant/Owner: Eversource			t Sampling Point: 1406 1B 4 JSC
CME ICO	Section, Townshi		
Landform (hillslope, terrace, etc.): Depression		·	
, , ,	•	•	
Subregion (LRR or MLRA): R 144A		_	
Soil Map Unit Name: 45B Woodbridge fine s		NWI classifica	
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes	No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" pr	resent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach si	te map showing sampling po	int locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	✓ No Is the Sar	npled Area	
	No within a V	Vetland? Yes	No
Wetland Hydrology Present? Yes		onal Wetland Site ID: 1406 1E	3
Remarks: (Explain alternative procedures here			
Drought			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil (	
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patt	terns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lir	
Saturation (A3)	Marl Deposits (B15)	-	Vater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burro	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	· / —	s ble on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	<del></del>	ressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)	<ul><li>Recent Iron Reduction in Tilled S</li><li>Thin Muck Surface (C7)</li></ul>	oils (C6) Geomorphic F Shallow Aquit	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquit	
Sparsely Vegetated Concave Surface (B8)	Other (Explain III Nemarks)	✓ FAC-Neutral	
Field Observations:			1001 (20)
	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Present	t? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			

<b>EGETATION –</b> Use scientific names of plants				Sampling Point: 1406 1B 4 JSC
Tree Stratum (Plot size: 30 ft r )		Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species
··				That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant
3				Species Across All Strata: 3 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
4F ft	0	= Total Cov	er	OBL species $\frac{45}{60}$ $x_1 = \frac{45}{120}$
Sapling/Shrub Stratum (Plot size: 15 ft r )	40	,	EA 0)4/	FACW species $60$ $x = 120$ FAC species $0$ $x = 0$
1. Ilex verticillata	40		FACW	FACU species 0 x 4 = 0
2. Cornus amomum			FACW	UPL species $0$ $x = 0$
3				Column Totals: 105 (A) 165 (B)
1				Prevalence Index = B/A = 1.57
5				
5. <u> </u>		-		Hydrophytic Vegetation Indicators:  ✓ 1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
F ()	50	= Total Cov	er	✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r )  1. Persicaria sagittata	40	~	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Phragmites australis	10		FACW	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
3. Cyperus odoratus	_ <del>10</del>		OBL	1 Toblematic Trydrophytic Vegetation (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7 8				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	55	= Total Cov	ver	height.
Woody Vine Stratum (Plot size: 30 ft r )				
(Flot size:				
· · · · · · · · · · · · · · · · · · ·				
1				
1 2				Hydrophytic
1				Hydrophytic Vegetation Present? Ves Ves No.
1	- —— - ——			

SOIL Sampling Point: 1406 1B 4 JSC

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)	
Depth	Matrix			x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0 - 12	10YR 2/1	90	10YR 4/6	5	<u>C</u>	PL	Silt Loam		
0 - 12			7.5YR 6/2	5	<u>D</u>	M	Silt Loam		
12 - 18	10YR 5/2	80	7.5YR 4/6	20	С	PL	Sandy Loam	Course	
					_				
					_		-		
					_		-		
-									
-									
_									
<sup>1</sup> Type: C=Ce	oncentration, D=De	oletion, RM	I=Reduced Matrix, M	S=Maske	d Sand G	rains.	<sup>2</sup> Location	: PL=Pore Lining, M=Matrix.	
Hydric Soil		Í	,					for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo		e (S8) ( <b>LR</b>	RR,		Muck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2) stic (A3)		MLRA 149B Thin Dark Surfa	•	IRRR N	II RA 149R		Prairie Redox (A16) ( <b>LRR K, L, R</b> )  Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	en Sulfide (A4)		Loamy Mucky I					Surface (S7) ( <b>LRR K, L</b> )	
	d Layers (A5)		Loamy Gleyed		2)			alue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac	ce (A11)	Depleted Matrix					ark Surface (S9) ( <b>LRR K, L</b> )	
	ark Surface (A12)		✓ Redox Dark Su	•	•			anganese Masses (F12) (LRR K, L, R)	
-	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark Redox Depress				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5)		Redox Depress	SIUIS (FO)			Red Parent Material (F21)		
-	I Matrix (S6)							Shallow Dark Surface (TF12)	
	rface (S7) ( <b>LRR R</b> ,	MLRA 149	<b>B</b> )					(Explain in Remarks)	
<sup>3</sup> Indicators o	f hydrophytic vegeta	ation and w	etland hydrology mu	st be pres	ent, unles	s disturbed	d or problemation	D.	
	Layer (if observed)		, 0,	<u> </u>			Τ		
Type:									
Depth (in	ches):						Hydric Soil	Present? Yes No	
Remarks:									

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

- Line 1500: 2020	- Outerd - 2020 00 29
	/County: Oxford Sampling Date: 2020-09-28
Applicant/Owner: Eversource	State: Connecticut Sampling Point: 1403 1B JSC
	tion, Township, Range:
Landform (hillslope, terrace, etc.): Hillslope Local re	elief (concave, convex, none): Concave Slope (%): 5-8
Subregion (LRR or MLRA): R 144A Lat: 41.3947754	Long: -73.1657112 Datum: NAD 83
Soil Map Unit Name: 60C Canton and Charlton fine sandy loam	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	
	urbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally probler	
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No  Hydric Soil Present?  Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes ✓ No Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
Drought	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	✓ Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leav High Water Table (A2) Aquatic Fauna (B13	· · ·
Saturation (A3)  Marl Deposits (B15)	
Water Marks (B1) Hydrogen Sulfide C	
1	eres on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduce	ed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduct	<u>.</u>
Iron Deposits (B5) Thin Muck Surface	
✓ Inundation Visible on Aerial Imagery (B7) Other (Explain in Red)	emarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	l .
Saturation Present? Yes No Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, p.	Wetland Hydrology Present? Yes No revious inspections). if available:
3 3 7 3 7 7	, ,
Downston	
Remarks:	
Cobblely hillslope	

<b>/EGETATION –</b> Use scientific names of plants	S.			Sampling Point: 1403 1B JSC
Tree Stratum (Plot size: 30 ft r )		Species?		Dominance Test worksheet: Number of Dominant Species
1 2				That Are OBL, FACW, or FAC: 6 (A)
3.				Total Number of Dominant Species Across All Strata: 6 (B)
ł				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
5 a				
5 7		_		Prevalence Index worksheet:
	•	= Total Co		
Sapling/Shrub Stratum (Plot size: 15 ft r )	<u> </u>	- Total Co	vei	FACW species $\frac{70}{x^2} = \frac{140}{x^2}$
1. Alnus incana	10	~	FACW	FAC species 10 x 3 = 30
2. Cornus amomum	10		FACW	FACU species $0   x4 = 0$
3. Salix nigra	_ <del>10</del>		OBL	UPL species <u>0</u>
				Column Totals: <u>115</u> (A) <u>205</u> (B)
1 =				Prevalence Index = B/A = 1.78
5				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
7	25			✓ 2 - Dominance Test is >50%
F. 44	25	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft r )  1 Impatiens capensis	50	~	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. Persicaria arifolia	30		OBL	Problematic Hydrophytic Vegetation¹ (Explain)
		·		
3 4				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5			·	Definitions of Vegetation Strata:
6.				
7				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	80	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r )				
1. Vitis riparia	10	~	FAC	
2.				
3				Hydrophytic
4.				Vegetation
T		= Total Co		Present? Yes No No
		- Total Co	VCI	

SOIL Sampling Point: 1403 1B JSC

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)	
Depth	Matrix			x Feature	es	2			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0 - 6	10YR 2/1	95	7.5YR 3/4	5	С	PL	Silt Loam		
6 - 9	10YR 5/2	55	10YR 3/1	25	<u>C</u>	М	Sandy Loam	Coarse sandy loam	
6 - 9		_	7.5YR 4/6	20	С	PL		Refusal at 9 inches rock	
	-		· -						
				_	_				
		_				_ ,			
			· -						
-						- '			
¹Type: C=Cd	oncentration, D=Dep	oletion, RN	/I=Reduced Matrix, M	S=Maske	d Sand G	rains.	<sup>2</sup> Location	: PL=Pore Lining, M=Matrix.	
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1) pipedon (A2)		Polyvalue Belo		e (S8) ( <b>LR</b>	RR,		Muck (A10) (LRR K, L, MLRA 149B)	
Black Hi			MLRA 149B Thin Dark Surfa	•	LRR R. M	ILRA 149B		Prairie Redox (A16) ( <b>LRR K, L, R</b> )  Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	en Sulfide (A4)		Loamy Mucky I					Surface (S7) (LRR K, L)	
	d Layers (A5)		Loamy Gleyed		2)		-	alue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac	ce (A11)	Depleted Matrix		`			ark Surface (S9) (LRR K, L)	
	ark Surface (A12) Mucky Mineral (S1)		✓ Redox Dark Su Depleted Dark	•	•			anganese Masses (F12) ( <b>LRR K, L, R</b> ) ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
-	Gleyed Matrix (S4)		Redox Depress				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5)			(			Red Parent Material (F21)		
-	Matrix (S6)						Very Shallow Dark Surface (TF12)		
Dark Su	rface (S7) ( <b>LRR R</b> ,	MLRA 149	<b>9B</b> )				Other	(Explain in Remarks)	
<sup>3</sup> Indicators of	f hydrophytic vegeta	ition and w	etland hydrology mus	st be pres	ent, unles	ss disturbed	d or problemation	<b>2</b> .	
	Layer (if observed)	:							
Type:							Hydric Soil	Present? Yes No	
Depth (ind	cnes):						Tiyunc 30ii	165 HO	
ixemaiks.									
İ									

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

Project/Site: Line 1580: 2020	city/County: Oxford Sampling Date: 2020-09-28
Applicant/Owner: Eversource	State: Connecticut Sampling Point: 1399 1A JSC
DICV ICC	Section, Township, Range:
	al relief (concave, convex, none): Undulating Slope (%): 0
, ,	,
	Long: -73.1692415 Datum: NAD 83
Soil Map Unit Name: 306 Udorthents-Urban land complex	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	elematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes V No	within a Wetland? Yes No
Wetland Hydrology Present? Yes V No	If yes, optional Wetland Site ID: 1399 1A
Remarks: (Explain alternative procedures here or in a separate report.	
Drought	
Dirt bike/off-road activity	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Le	eaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (E	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B	
Water Marks (B1) Hydrogen Sulfide	
	pheres on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Red	
Algal Mat or Crust (B4) Recent Iron Redu Iron Deposits (B5) Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos.	previous inspections) if available:
Describe Necorded Data (stream gauge, monitoring well, acrial photos.	, providus inspections), ii available.
Remarks:	

25		Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 2 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 60 x 1 = 60		
	= Total Co		That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 2 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet: Total % Cover of: Multiply by:		
25	= Total Co		Total Number of Dominant Species Across All Strata: 2 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet: Total % Cover of: Multiply by:		
	= Total Co		Species Across All Strata: 2 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:		
25	= Total Co		That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:		
25	= Total Co		Prevalence Index worksheet:		
25	= Total Co		Total % Cover of: Multiply by:		
25	= Total Co	ver			
25		ver	OBL species $60   x_1 = 60$		
		ODI	FACW species $0$ $x 2 = 0$ FAC species $0$ $x 3 = 0$		
		OBL	FACU species 0 x 4 = 0		
			UPL species $0 \times 5 = 0$		
			Column Totals: 60 (A) 60 (B)		
			Prevalence Index = B/A = 1.0		
			Hydrophytic Vegetation Indicators:  ✓ 1 - Rapid Test for Hydrophytic Vegetation		
250/			✓ 2 - Dominance Test is >50%		
2070	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0¹		
35		OBL	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)		
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
			1		
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
			Definitions of Vegetation Strata:		
			Tree – Woody plants 3 in. (7.6 cm) or more in diamete		
			at breast height (DBH), regardless of height.		
			Sapling/shrub – Woody plants less than 3 in. DBH		
			and greater than or equal to 3.28 ft (1 m) tall.		
			<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
			<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.		
35%	= Total Co	ver			
			Hydrophytic Vegetation		
			Present? Yes No No		
	= Total Co	ver			
10 011001.)					
	25% 35 ——————————————————————————————————	25% = Total Cov  35	25% = Total Cover  35		

SOIL Sampling Point: 1399 1A JSC

Profile Desc	cription: (Describe	to the de	oth needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)	
Depth	Matrix	0/		<u> Feature</u>		. 2	<b>-</b> .	<b>5</b>	
(inches) 0 - 3	Color (moist) 10YR 4/3	<u>%</u> 85	Color (moist) 7.5YR 4/6	<u>%</u> 15	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Sandy loam	Remarks	
3 - 8	10YR 5/2	55	7.5YR 5/6	45	C	M	Loamy sand		
8 - 14	2.5Y 5/2	80	7.5YR 4/6	20	C	M	Sandy loam	Fine sandy loam	
		. —	71011111		. —				
	-		·		-				
		. ——							
		. ——							
<sup>1</sup> Type: C=C	oncentration D=Den	letion RM	=Reduced Matrix, MS		d Sand Gr	aine	<sup>2</sup> l ocation	n: PL=Pore Lining, M=Matrix.	
Hydric Soil		iction, rav	-reduced Matrix, Me	- Masket	d Garia Gi	airis.		for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,		Muck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2) istic (A3)		MLRA 149B) Thin Dark Surfa		LRR R. M	LRA 149B		Prairie Redox (A16) ( <b>LRR K, L, R</b> )  Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroge	en Sulfide (A4)		Loamy Mucky M	lineral (F	1) ( <b>LRR K</b>		Dark S	Surface (S7) (LRR K, L)	
	d Layers (A5)	- (011)	Loamy Gleyed N		2)			alue Below Surface (S8) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	e (ATT)	✓ Depleted Matrix Redox Dark Sur					Oark Surface (S9) ( <b>LRR K, L</b> ) langanese Masses (F12) ( <b>LRR K, L, R</b> )	
	/ucky Mineral (S1)		Depleted Dark S					nont Floodplain Soils (F19) (MLRA 149B)	
-	Sleyed Matrix (S4)		Redox Depressi	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5)						Red Parent Material (F21) Very Shallow Dark Surface (TF12)		
	l Matrix (S6) rface (S7) ( <b>LRR R, N</b>	/ILRA 149	<b>B</b> )				Other (Explain in Remarks)		
3Indicators of	f bydronbytic vogotat	tion and w	otland bydrology mus	t ha proof	ont unloc	a diaturhad			
	r nydropnylic vegelai Layer (if observed):		etland hydrology mus	t be prese	ent, unies	s disturbed	or problemation	С.	
Type:									
Depth (in	ches):						Hydric Soil	Present? Yes V No No	
Remarks:									
Disturbe	ed soil								

W23/W24

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

Project/Site: Line 1580	ity/County: Monroe Sampling Date: 2021-03-03
Applicant/Owner: Eversource	State: Connecticut Sampling Point: 204 W40
AUZ DIO	ection, Township, Range:
• ( )	I relief (concave, convex, none): Slope (%): 5-8
· ,	Long: -73.1733335 Datum: WGS 84
	NWI classification: PFO1E
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	sturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes   ✓ No	within a Wetland? Yes No
Wetland Hydrology Present? Yes   ✓ No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Water-Stained Le	
High Water Table (A2) Aquatic Fauna (E	
Saturation (A3) Marl Deposits (B	
Water Marks (B1) Hydrogen Sulfide	
Sediment Deposits (B2) Oxidized Rhizosp Drift Deposits (B3) Presence of Red	
<u> </u>	uction in Tilled Soils (C6)  Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	
✓ Inundation Visible on Aerial Imagery (B7) Other (Explain in	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	1
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	0 Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos.	previous inspections) if available:
Boosings (toosings Batta (chodin gauge, monitoring won, dental priotes)	provided inopositions, in available.
Remarks:	
Hillside seep, water actively flowing on surfa	ce, drainage patterns
, , ,	, 3 1

<b>VEGETATION –</b> Use scientific names of plants	i.			Sampling Point: 204 W40
Tree Stratum (Plot size: 30 ft r )	Absolute	Dominant Species?		Dominance Test worksheet:
1. Tsuga canadensis	40	Species ?	FACU	Number of Dominant Species
2. Betula alleghaniensis	20		FAC	That Are OBL, FACW, or FAC: 4 (A)
3. Acer rubrum	10		FAC	Total Number of Dominant Species Across All Strata: 5 (B)
4. Liriodendron tulipifera	5		FACU	Species / Isroso / III official.
		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 80.00 (A/B)
5				(***)
6		-		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
1F 54	/5	= Total Co	ver	OBL species $0$ $x 1 = 0$ FACW species $45$ $x 2 = 90$
Sapling/Shrub Stratum (Plot size: 15 ft r )	40		E 4 O 1 4 /	FACW species $\frac{45}{30}$ $x = \frac{90}{90}$ FAC species $x = \frac{90}{90}$
1. Lindera benzoin	_ 10		FACW	FACU species 45 x 4 = 180
2	_			UPL species 0 x 5 = 0
3				Column Totals: 120 (A) 360 (B)
4				
5				Prevalence Index = B/A = 3.00
6				Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
	10	= Total Cov	ver	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r )				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Osmundastrum cinnamomeum	20	~	FACW	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
2. Onoclea sensibilis	 15		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11	_			of size, and woody plants less than 3.26 it tall.
12				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
	35	= Total Co	ver	neight.
Woody Vine Stratum (Plot size: 30 ft r )				
1		·		
2	_			
3				Hydrophytic
4.				Vegetation
	_	= Total Cov	/er	Present? Yes No

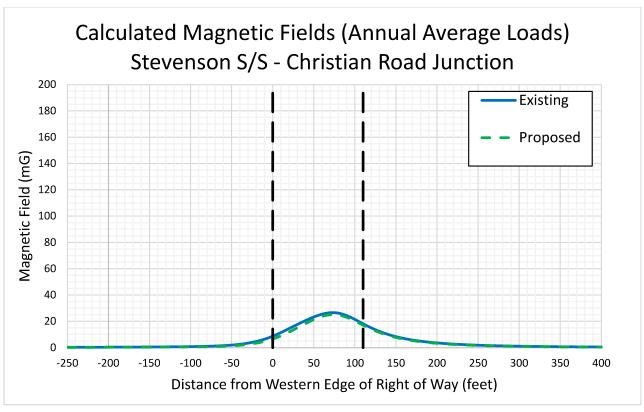
SOIL Sampling Point: 204 W40

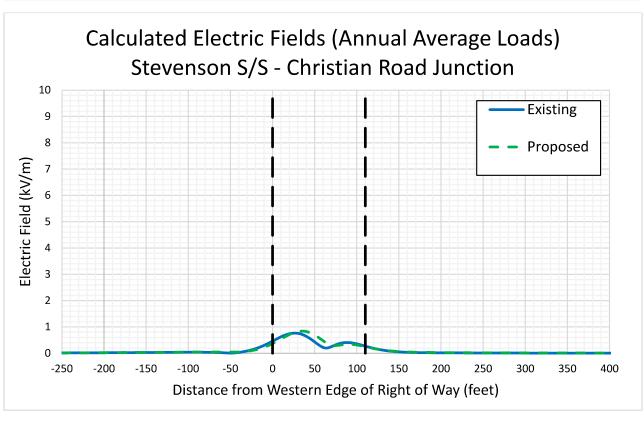
Profile Desc	cription: (Describe	to the de	oth needed to docum	nent the i	ndicator	or confirm	m the absence of indicators.)		
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture Remarks	—	
0 - 6	10YR 2/1	100					Silt Loam		
6 - 14	10YR 4/1	95	10YR 3/6	5	С	<u>M</u>	Silt Loam		
14 - 20	10YR 4/1	95	10Y 3/6	5	С	M	Sand		
-									
				-			·		
				-	-		· <del></del>		
		<u> </u>						—	
	-	-					· <del></del>		
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							<u></u>		
-				'	'		· <del></del> -		
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	I Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
Hydric Soil		•	,				Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Polyvalue Belov		(S8) ( <b>LR</b>	R R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic Ep   Black Hi	oipedon (A2)		MLRA 149B) Thin Dark Surfa		DD D M	I DA 1/0R	<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, I</li> </ul>	<b>5</b> \	
	en Sulfide (A4)		Loamy Mucky M	. , .			Dark Surface (S7) (LRR K, L)	•)	
Stratified	d Layers (A5)		Loamy Gleyed N	Matrix (F2		•	Polyvalue Below Surface (S8) (LRR K, L)		
-	d Below Dark Surfac	e (A11)	<u>✓</u> Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)		
	ark Surface (A12) Mucky Mineral (S1)		Redox Dark Sur Depleted Dark S				Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)		
-	Gleyed Matrix (S4)		Redox Depressi		7)		Pleathort Floodplant Solis (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5)			( 2)			Red Parent Material (F21)		
	Matrix (S6)						Very Shallow Dark Surface (TF12)		
Dark Su	rface (S7) ( <b>LRR R, I</b>	/ILRA 149	<b>B</b> )				Other (Explain in Remarks)		
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and w	etland hydrology mus	t be prese	ent, unles	s disturbed	d or problematic.		
	Layer (if observed):		, 0,	•	,		<u> </u>		
Type:									
Depth (in	ches):						Hydric Soil Present? Yes No		
Remarks:									
Very bo	uldery								
	•								

CSC Petition Eversource Energy

Attachment E

**EMF** Graphs





CSC Petition Eversource Energy

# Attachment F Letter to Abutters and Affidavit



February 19, 2024

Dear Neighbor,

At Eversource, we're always working to serve you better. We are submitting a Petition to the Connecticut Siting Council (CSC) for a proposed electric reliability project in your area.

#### **Proposed Project Information**

The Project, called the Christian Street Junction to Stevenson Substation Rebuild Project ("Project"), is one of several projects designed to support the continued reliability of the transmission system in your region. The Project work would be located within the existing Eversource right-of-way (powerline corridor) on or near your property in the towns of Oxford and Monroe.

The proposed project includes the replacement of existing transmission towers, conductor and shield wires along 5.5 miles between the Junction on Christian Street in Oxford, to Cottage Street in Monroe, slightly past the Stevenson Substation at 1 Roosevelt Drive. This work includes:

- Replace the existing steel lattice towers and select steel monopoles with new steel monopole structures. The location and heights of the new structures will vary depending on location, topography, and other factors. In select areas, additional new monopole structures will be installed within the right-of-way to meet updated engineering and electric code standards.
- Replace the existing conductor (energized wires) with new, upgraded conductor of the same voltage (115-kV).
- Replace the shield wire (top-most wire) with Optical Ground Wire (OPGW). The new wire will improve electric reliability by enabling communications between substations.
- Remove select trees and vegetation within the right-of-way as needed for construction, and conduct vegetation maintenance, which includes removing incompatible, tall-growing vegetation to comply with electric safety standards.
- Build or improve gravel roads and work pads to provide access to structure locations and to create a stable work area for equipment. Temporary construction matting will be used in and around environmentally sensitive areas (e.g., wetlands).

#### **What You Can Expect**

Pending receipt of the necessary approvals for this proposed work, construction is expected to begin in Ouarter 3 of 2024.

#### **Contact Information**

Eversource is committed to being a good neighbor and doing our work with respect for you and your property. For more information, please call our Projects Hotline at 1-800-793-2202 or send an email to ProjectInfo@eversource.com.

If you would like to send comments regarding Eversource's Petition to the CSC, please send them via email to siting.council@ct.gov or send a letter to the following address: Melanie Bachman, Executive Director, Connecticut Siting Council, Ten Franklin Square, New Britain, CT 06051.

Sincerely,

#### Taylor LaPierre

Project Manager – Eversource Energy

#### AFFIDAVIT OF SERVICE OF NOTICE

STATE OF CONNECTICUT	) ) ss. Berlin
COUNTY OF HARTFORD	)

Sec. 16-50j-40 of the Regulations of Connecticut State Agencies ("RCSA") provides that proof of notice to the affected municipalities, property owners and abutters shall be submitted with a petition for declaratory ruling to the Connecticut Siting Council ("Council"). In accordance with that RCSA section, I hereby certify that I caused notice of the petition for a declaratory ruling of The Connecticut Light and Power Company doing business as Eversource Energy to be served by mail or courier upon the following municipal officials:

Honorable George R. Temple First Selectman Town of Oxford Oxford Town Hall 486 Oxford Road Oxford, CT 06478 Honorable Terrence P. Rooney First Selectman Town of Monroe Monroe Town Hall 7 Fan Hill Road Monroe, CT 06468

I also certify that I caused notice of the proposed modifications to be served by mail or courier upon owners of abutting properties shown on Attachment A to the Petition.

Deborah Denfeld

Deborah Deefeld

Team Lead - Transmission Siting

On this the 19th day of February 2024, before me, the undersigned representative, personally appeared, Deborah Denfeld, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that she executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

Notary Public/My Commission expires:

Officer of the Superior Court/ Juris No.: Quelus W. Lol -

413393