APPENDIX B

ECOLOGICAL ASSESSMENT REPORT (WATER / BIOLOGICAL RESOURCES)

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Ecological Assessment Report

Fairfield to Congress Railroad Transmission Line 115-kV Rebuild Project
The United Illuminating Company
Town of Fairfield and City of Bridgeport, Fairfield County, Connecticut

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1.0 EXECUTIVE SUMMARY

This report describes the existing ecological communities occurring on and within the approximate vicinity of the United Illuminating Company's (UI's) proposed Fairfield to Congress Railroad Transmission Line 115-kilovolt (kV) Rebuild Project (Project), which will generally be aligned within or near the Connecticut Department of Transportation's (CT DOT's) Metro-North Railroad (MNR) corridor from existing railroad catenary structure B648S in the Town of Fairfield east to UI's Congress Street Substation in the City of Bridgeport, Fairfield County, Connecticut (Figure 1). The Project area extends along and near the CT DOT railroad corridor, which is located between approximately 0.5- and 1 mile inland from Long Island Sound.

This report describes existing environmental resources and ecological communities, including soils, water resources, flora, fauna, fisheries, and wildlife habitats. Data provided as part of this evaluation are based on baseline research for the Project area, field investigations, and ecological consultations completed with the Connecticut Department of Energy and Environmental Protection (CT DEEP) Natural Diversity Database (NDDB), CT DEEP Bureau of Natural Resources Fisheries Division, CT Department of Agriculture, Bureau of Aquaculture, and screenings with National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Services (NMFS) Endangered Species Act Habitat Mapper and United States Fish and Wildlife Service (USFWS). The report presents the results of research and analyses completed to date, including field investigations conducted within the proposed Project area, the review of published environmental data and agency consultations listed above.

2.0 INTRODUCTION

To maintain the reliability of the bulk transmission grid in Connecticut and regionally, UI proposes to rebuild its existing single-circuit 115-kV overhead lines that are presently located on MNR catenary structures within the CT DOT corridor from catenary structure B648S (east of Sasco Creek) in Fairfield to UI's Congress Street Substation located in Bridgeport. From catenary structure B648S east through Fairfield to the western portion of Bridgeport, one of UI's existing 115-kV lines (the 1130 Line) is supported primarily monopoles located along the north side of the CT DOT corridor, while another 115-kV line (the 1430 Line) is located on UI-owned extensions (bonnets) located on the top of the southern MNR catenary support structures. In Bridgeport, UI's two 115-kV lines are typically located on bonnets on both the north and south MNR catenary support columns. The existing 115-kV lines connect to UI's Ash Creek, Resco, Pequonnock, and Congress Street substations, all located in Bridgeport.

The Project is required because UI's engineering analyses of the existing 115-kV infrastructure on the railroad catenaries determined that the structural support system exhibits various physical limitations, such as age-related deterioration and corrosion. As a result, UI found that the 115-kV lines must be relocated off the catenary structures and rebuilt on new monopoles, generally within or near the CT DOT railroad corridor. The rebuilt 115-kV lines will be designed to meet current electrical codes and to withstand extreme weather conditions (such as Category 3 Hurricanes). The 115-kV line rebuilds will improve and maintain system reliability and provide technological enhancements to legacy system equipment in order to ensure that the safe and reliable transmission of power is maintained in accordance with Federal and UI reliability standards.



The Project entails the rebuild of approximately 7.3 miles of single- and double- circuit 115-kV lines along the CT DOT railroad corridor, from catenary structure B648S northeast to Congress Street Substation.¹ The Project also will rebuild UI's existing 0.23-mile double-circuit 115-kV overhead transmission lines that connect the 115-kV lines along the railroad corridor to UI's existing Ash Creek Substation. The 0.23-mile Ash Creek lines presently consist of double-circuit lattice steel towers situated within a UI right-of-way (ROW) that varies in width. In addition, the Project will connect the rebuilt 115-kV lines to Resco Tap and Congress Street Substation, as well as to the rebuilt lines at Pequonnock Substation.

The Project will entail relocating the transmission lines off the existing railroad catenary bonnets (that is, removing the UI-owned extensions from the catenary support columns and the overhead transmission wire systems) and installing independent monopoles with new insulators, hardware, and conductors generally within or near the CT DOT corridor. Certain other existing structures (e.g., a tall lattice steel tower that straddles the railroad tracks and Bridgeport Train Station) also will be removed from the CT DOT corridor. Along the 0.23-mile ROW from the CT DOT corridor to UI's Ash Creek Substation, UI will remove the existing double-circuit lattice steel towers and will rebuild the 115-kV lines on new single-circuit monopoles.

Access to construct and operate/maintain the rebuilt 115-kV lines is expected to be via the existing public road network, within the CT DOT corridor, UI ROW to Ash Creek Substation, or new temporary or permanent access roads. To the extent practical, UI proposes to rebuild the 115-kV lines within undeveloped portions of the CT DOT corridor. However, in various locations, the CT DOT railroad corridor is not wide enough to accommodate the proposed new monopole structures and the clearances required to maintain, operate, and repair the new infrastructure. In such areas, UI will acquire permanent easements on properties adjacent to or near the CT DOT property boundary.

As part of the initial planning in support of the Project, UI and its consultants conducted baseline research and completed field inspections of the CT DOT corridor and the Project area to document and inventory existing ecological communities, wetland resources, watercourses, flora and fauna conditions, and wildlife habitat types, including listed species identified by CT DEEP NDDB and USFWS. UI also consulted with both the CT DEEP and the USFWS and assessed soil resources based on a review of data maintained by the United States Natural Resources Conservation Service (NRCS). In addition, UI reviewed data maintained by NMFS and consulted with the Connecticut Department of Agriculture, Bureau of Aquaculture regarding marine and shellfish resources.

3.0 WATER RESOURCES

In conjunction with UI's initial project planning evaluations, wetland and watercourse delineations along the CT DOT corridor and UI's ROW to Ash Creek Substation were completed by BL Companies, Inc. (BL Companies) in April 2019 through May 2019, as well as in April 2022. The field delineations are documented in the *Water Resources Delineation Report (Fairfield to Congress – 115-kV Line Project)*, attached as Attachment A. Please refer to this document for detailed descriptions of the

¹ Approximately 0.3 mile of UI's 115-kV lines that are located on the railroad catenary structures near the Pequonnock Substation in Bridgeport will be rebuilt (removed from the catenaries and installed on new monopoles) as part of UI's separate Pequonnock Substation Rebuild Project. As a result, whereas the distance from catenary structure B648S to Congress Street Substation is 7.6 miles, the Project will involve 115-kV line rebuild work on only 7.3 linear miles of the CT DOT corridor.



delineated wetlands, watercourses, and upland systems in the Project area, along with an evaluation of associated wetland function and values.

3.1 WETLAND AND WATERCOURSES

The 2019 and 2022 site investigations were performed to delineate State and Federal water resources (i.e., Waters of the United States, State-regulated tidal resources including all land below the coastal jurisdiction line [CJL], tidal vegetation up to one foot above the CJL, and inland freshwater wetlands and watercourses), to identify any vernal pools in the Project area, and to assess general wildlife habitat. The site investigations were conducted by wetland scientists and certified professional soil scientists. Wetland and watercourse delineation methodology consisted of identifying vegetation, soils, and hydrology that are characteristic of wetland and upland areas, in accordance with State and Federal delineation protocols. Soil samples were taken via hand borings to document soil morphology and to characterize wetland and upland areas.

The primary named water resources in the Project area are Sasco Creek, Mill River, Ash Creek (crossed along the CT DOT corridor and UI's ROW to Ash Creek Substation), and the Pequonnock River. While the Project will not cross Sasco Creek, catenary structure B648S is located approximately 150 feet east of the creek and is near wetlands associated with the creek; as a result, Sasco Creek is included in the inventory of water resources in the Project area.

Following the Classifications of Wetlands and Deepwater Habitats of the United States,² the delineated wetlands and watercourses are characterized by National Wetland Inventory (NWI) classifications. The wetland classifications include palustrine emergent (PEM), palustrine scrub-shrub (PSS), palustrine forested (PFO), and estuarine subtidal (E1) and intertidal (E2) wetlands. Watercourses are characterized as E1, E2, riverine lower perennial (R2), riverine intermittent (R4), or riverine unknown perennial (R5).

Ten jurisdictional wetlands were identified within, and adjacent to, the Project area. Inland wetlands consist of five PEM wetlands, one mixed PFO/PEM wetland, and one mixed PEM/PSS wetland. The PFO wetlands are primarily dominated by red maple (*Acer rubrum*), which is common throughout Connecticut; such areas are often referred to as "red maple swamps". PEM wetlands were primarily dominated by common reed (*Phragmites australis*) with broadleaf cattail (*Typha latifolia*) and jewelweed (*Impatiens capensis*) mixed throughout. In addition, three tidal estuarine emergent wetlands were delineated within the Project area, including one tidal wetland located east of Sasco Creek and two tidal wetlands that adjoin Ash Creek. Inland wetlands present within the Project area consist predominantly of urbanized, disturbed wetlands that have some degree of anthropogenic disturbance, therefore affecting the ecological communities found within the railroad corridor. In contrast, the three tidal wetlands delineated within the Project area are less disturbed and contain native marsh vegetation.

In addition to the 10 wetlands, 14 watercourses were identified in the Project area, including the four named watercourses (Sasco Creek, Mill River, Ash Creek [two crossings], and Pequonnock River), as well as un-named perennial streams, intermittent ditches/channelized streams, and an ephemeral drainage feature. Nine of the watercourses are freshwater, while five are tidal or tidally influenced,

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² Cowardin, L.M., V. Carter, F.C. Goblet and E.T. LaRoae. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, OBS-79/31, Washington, D.C.



including Sasco Creek³, Ash Creek (both crossings), the two streams associated with Ash Creek, and the Pequonnock River. Mill River, Ash Creek (both crossings), WC-2, WC-8, WC-9, WC-10. TWC-11, and the western edge of the Pequonnock River are spanned by the existing 115-kV lines within the CT DOT corridor. Watercourse WC-2 is culverted under the railroad tracks and opens into a concrete lined channel just south of the railroad tracks within the Project area. Watercourse WC-7 is culverted under the railroad track and continues into the culverted portion of WC-8. WC-8 daylights via a large headwall with two openings into a concrete-lined channel, which connects with WC-9, south of the CT DOT corridor. WC-9 is directly spanned by the railroad tracks as it flows in an open channel under the tracks, into a box culvert south of the tracks, that conveys the watercourse under the US Route 1 (Kings Highway Cutoff) overpass. WC-9 daylights at a large headwall to an open concrete-lined channel, west of US Route 1, and continues south outside of the Project area.

Typical principal functions and values provided by wetlands within the Project area include flood-flow alteration, groundwater recharge, fish/shellfish habitat, nutrient removal/attenuation, and pollutant retention. Due to the urbanized landscape in which most of these wetlands occur, the functions of flood-flow alteration, nutrient removal/attenuation, and pollutant removal are likely important for the protection of downstream water quality. As most of these systems have an indirect or direct connection to Long Island Sound, their ability to capture and attenuate pollutant-laden runoff from high intensity development before it reaches Long Island Sound is notable.

Table 1 identifies wetlands in the Project area, listing each wetland based on the NWI classification regarding habitat type. The wetlands are illustrated on the mapping in Attachment A and the Volume 2 maps.

Table 1. Wetlands in the Project Area

Municipality/Project 100/400 Scale Mapsheet Nos.	Wetland Number*	NWI Classification	Inland (I) or Tidal (T)
1/1	TW-A	E2EMP5d	T
2/1	W-B	PEM	1
4-5/2	W-C	PEM	1
5-6/2	W-D	PEM	I
11/3	W-E	PFO/PEM	I
11/3	W-F	PEM	I
13/4	W-G	PEM	I
14/4	W-H	PEM/PSS	I
15/4	TW-I	E2EM	T
18/5	TW-J	E1UBL	Т

^{*} Refers to Project-specific designation given to the water resource during field investigations and shown on the Volume 2 aerial-based maps.

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³ The Project will not involve any work in or over Sasco Creek.



Table 2. Watercourses in the Project Area

Municipality/Project 100/400 Scale Mapsheet Nos.	Watercourse Name*	Flow Type	Freshwater (F) or Tidal (T)
1/1	Sasco Creek	Perennial	T
2/1	WC-2	Perennial	F
4/2	WC-3	Perennial	F
4-5/2	WC-4	Ephemeral	F
5/2	WC-5	Intermittent	F
5-6/2	Mill River	Perennial	F
12/4	WC-7	Perennial	F
12/4	WC-8	Perennial	F
12-13/4	WC-9	Perennial	F
14/4	WC-10	Perennial	F
15, 18/4-5	Ash Creek**	Perennial	T
15/4	TWC-11	Perennial	Т
15/4	TWC-12	Perennial	T
27-29/7	Pequonnock River	Perennial	T Cald

^{*} Refers to Project-specific number given to the water resource during field investigations and shown on the Volume 2 aerial-based maps.

Note: While in the general Project area, the Project will not cross Sasco Creek.

3.2 VERNAL POOLS

Site investigations were scheduled to coincide with the optimum time of year to identify vernal pools and the fauna utilizing such features. Field work was completed in April and May 2019, with additional site visits conducted in April 2022. Identification of vernal pools can only be verified during the spring since vernal pools are sensitive to seasonal water fluctuations and temperatures. Vernal pools are identified based on the presence of one or more obligate vernal pool species, including spotted salamander (*Ambystoma maculatum*), marbled salamander (*Ambystoma opacum*), Jefferson salamander (*Ambystoma jeffersonianum*), blue-spotted salamander (*Ambystoma laterale*), blue-spotted Jefferson hybridized complex, wood frog (*Rana sylvatica*), and fairy shrimp (*Anostraca spp.*).

No vernal pools were identified within the Project area. The lack of vernal pools is not unexpected because the Project area is characterized by dense suburban and urban developments that do not

^{**} Project crosses Ash Creek at two locations.



support the wetlands and other habitats that vernal pool species require. In addition, the amphibian species that breed in vernal pools rely on upland forests for primary habitat during the non-breeding periods. Such upland forest habitat is lacking in the Project area.

4.0 FLORA AND FAUNA – GENERAL HABITAT CONDITIONS

From a biogeographical perspective, the Project area falls within the Long Island Sound Coastal Lowland ecoregion in the central part of Connecticut, between Sasco Creek and the Pequonnock River. The CT DOT corridor has supported railroad and utility infrastructure for decades and both UI and CT DOT/MNR perform periodic vegetation maintenance along the corridor. The CT DOT corridor extends through well-established and densely-developed areas of Fairfield and Bridgeport, where commercial and industrial land uses predominate. The existing 0.23-mile UI ROW between the CT DOT corridor and Ash Creek Substation crosses tidal watercourses and tidal wetlands.

Existing plant communities and wildlife found along and in the vicinity of the CT DOT corridor are associated with urbanized environments. Such habitats are of low significance in the State, as they tend to support disturbance-dependent wildlife, which often include species subsidized by human activities (e.g., rats, skunks, and racoons). The Project area is situated within a densely developed landscape with high traffic roadways and railways that present significant barriers to movement of terrestrial wildlife, including mammals, amphibians, and reptiles. Small habitat islands present can support migratory birds during migration along the Connecticut coastline, but long-term habitat for birds is restricted to species that are tolerant of highly disturbed habitats and other disturbances such as noise.

Vegetation within the majority of the Project area is dominated by non-native invasive species, including escaped ornamental vegetation often associated with residential landscaping. Typical plants observed in the Project area include Tartarian honeysuckle (*Lonicera tatarica*), multiflora rose (*Rosa multiflora*), common reed, oriental bittersweet (*Celastrus orbiculatus*), and these invasive species are common in the vicinity of the CT DOT corridor. Other common species that are found within the Project area include red maple, pin oak (*Quercus palustris*), white ash (*Fraxinus americana*), and red cedar (*Juniperus virginiana*).

The UI ROW between the CT DOT corridor and Ash Creek Substation differs from the highly developed and disturbed CT DOT corridor. The substrate of Ash Creek consists of unconsolidated mucks which are exposed during low tide, forming intertidal flats that provide habitat for shellfish such as mussels and foraging habitat for birds. Tidal wetlands fringe the tidal watercourse, and the existing plant communities within these areas include dense vegetation that forms high marsh habitat dominated by common reed with smaller areas of saltmarsh cordgrass (*Spartina alterniflora*). Ash Creek is a concentration area for migratory waterfowl, including black duck (*Anas rubripes*), gadwall (*Anas acuta*), mallard (*Anas platyrhynchos*), and green-winged teal (*Anas carolinensis*).

Similarly, the Project area spans across a portion of the Pequonnock River near a large bulkhead located along the western bank of the river. Portions of the substrate of the Pequonnock River are exposed during low tide, forming intertidal flats that provide shellfish habitat (namely mussels) and foraging habitat for birds. Some slopes near the railroad crossing are stabilized with riprap, which also provides substrate for mussels. Some intertidal areas are stabilized with dense vegetation which forms low and high marsh habitat.



5.0 FISHERIES AND SHELLFISH

The Project area traverses various perennial watercourses that are either known to support or have the potential to support warm water and other fisheries habitats. These include but are not limited to Sasco Creek⁴, Mill River, and the Pequonnock River. Warm-water fisheries are generally less sensitive than cold-water fisheries, and more tolerant of habitat disturbance and modifications to water quality.

Mill River has recently been stocked with certain cold-water species (trout); however, it is not expected that this watercourse along the railroad corridor supports self-sustaining trout populations in the vicinity of the CT DOT corridor crossing. Similarly, no State-designated or wild trout management areas are located in the vicinity of the CT DOT corridor. The American eel (*Anguilla rostrata*), the only catadromous fish in Connecticut, is found in all waterbodies in the State, including certain watercourses in the Project area. Catadromous fish live most of their adult lives in freshwater but must return to saltwater to spawn.

According to CT DEEP, the Project area is also near areas that support anadromous fish (i.e., fish species that spend most of their adult lives at sea but return to freshwaters to spawn). Mill River supports alewife anadromous fish runs, as well as blueback herring (*Alosa aestivalis*) and sea lamprey (*Petromyzon marinus*) fish runs. The Pequonnock River in Bridgeport also supports both alewife and sea lamprey runs. These anadromous species migrate to the first barrier on each waterway. ⁵ Striped bass and gizzard shad, also anadromous species, also feed in many coastal rivers in Connecticut and may periodically be found in the larger watercourses in the Project area. Ash Creek is not listed by CT DEEP as supporting anadromous fish and has no documented diadromous fish runs with the exception of American eel.

There are no Critical Habitats mapped by the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Services Endangered Species Act Critical Habitat Mapper within the Project area. However, the NOAA mapping indicates that the Pequonnock River is considered Essential Fish Habitat for various Mid-Atlantic fish species and for over 40 Highly Migratory Species. Ul's further consultation with CT DEEP regarding migratory (diadromous) species determined that the primary species expected to be in Pequonnock River are alewife, sea lamprey, and American eel.

Portions of the tidal watercourses in the general Project vicinity support shellfish beds, including, but not limited to, Sasco Creek, Mill River, Ash Creek, Black Rock Harbor, and the Pequonnock River. The portion of Sasco Creek that is located west of the Project area is mapped as Restricted-Relay by the Connecticut Department of Agriculture, Bureau of Aquaculture, meaning that shellfish can be harvested by special license and may not be directly harvested for market or consumption. The remaining watercourses in the Project area are mapped as Prohibited for shellfish harvesting, meaning that there has been no current sanitary survey or that a sanitary survey has been conducted and determined that shellfish cannot be harvested due to public health risks. Based on review of data regarding shellfish lease areas and coordination with CT Bureau of Aquaculture, no shellfish production areas are located in the immediate vicinity of the Project area near Ash Creek or the Pequonnock River. Some shellfish grow-out areas are situated in Ash Creek to the south of the UI ROW crossing to Ash Creek Substation.

⁴ The Project area starts east of Sasco Creek, and no work will be done within or across Sasco Creek.

⁵ https://portal.ct.gov/-/media/DEEP/fishing/fisheries_management/Migratory-Fish-Runs.pdf



6.0 SOILS

The majority of the Project area has been developed over time, and the CT DOT corridor and adjacent areas have been affected by various prior land use developments, including the creation and maintenance of the existing railroad tracks. The NRCS maps urban land and udorthents as the predominant upland (non-wetland) soil complexes present throughout the Project area (Attachment B).

Udorthents is a miscellaneous land type used to denote moderately-well to excessively-well drained earthen material which has been disturbed by cutting, filling, or grading in a way that the original soil profile can longer be discerned. However, native soils remain intact in certain portions of the Project area, mostly within freshwater and tidal wetlands or watercourses. In these areas, uplands are characterized by glaciofluvial soils (e.g., the Agawam series - derived from outwash surficial material). Tidally influenced wetland soils consist of Westbrook mucky peat derived from shallow organic material are associated within tidal wetlands located just east of Sasco Creek.

The Project area encompasses one location mapped by the NRCS as Prime Farmland (Attachment B). This mapped area is located along the CT DOT corridor in the general vicinity of South Gate Lane (near existing catenary structures B648S and B651S) in Fairfield and is mapped as Agawam fine sandy loam. However, this area is encompassed with the CT DOT-owned corridor and a residential area, and none of the soils are presently used for agricultural purposes. There are no areas mapped as Statewide Important Farmland soils mapped within the Project area.

7.0 REGULATORY AGENCY CONSULTATIONS

To evaluate the potential for Federal or State-listed threatened, endangered, or special concern species to occur in the Project area, UI consulted with both the CT DEEP NDDB and the USFWS. Initial correspondence with NDDB was conducted in 2019, and an NDDB letter dated September 18, 2019 indicated two known species within the Project area (Attachment C). As Project plans evolved, UI coordinated with CT DEEP again in January 2022 to request an updated NDDB review to reassess the potential for State-listed species to be present within the Project area and, if so, to determine methods for avoiding or minimizing impacts to such species. The results of these consultations determined that there are known extant populations of one threatened and one special concern State-listed species in the Project area. These species are:

- Peregrine falcon (Falco peregrinus) threatened
- Blueback herring (Alosa aestivalis) special concern

The NDDB determination, issued on January 28, 2022, is valid for two years (See Attachment C). If the Project scope of work changes or work is not initiated by January 28, 2024, UI will submit a new request to CT DEEP NDDB.

To fulfill the requirements of the USFWS under section 7(c) of the Endangered Species Act, UI consulted with the USFWS's New England Ecological Services Field Office through the Environmental Conservation Online System Information for Planning and Consultation (IPaC). The IPaC system identified three Federally-listed species as potentially occurring within the Project area and one additional species that is a candidate for listing. The Federally-listed species identified for the Project area include:



- Northern long-eared bat (Myotis septentrionalis) endangered⁶
- Red knot (Calidris canutus rufa) Threatened
- Roseate tern (Sterna dougallii dougallii) Endangered
- Monarch butterfly (Danaus plexippus) Candidate for listing

The IPaC review determined there are no critical habitats within the Project area. Results of the December 8, 2022, IPaC review are provided in Attachment D.

7.1 LISTED SPECIES DISCUSSION

The following sections provide brief summaries and characteristics of the Federal and State-listed species. Ul's initial proposed protection/avoidance measures to be used during the Project construction to avoid or minimize the potential for impacts to these species is also included.

7.2 STATE LISTED BIRDS AND FISH

No onsite surveys have been conducted for listed avian or fish species. NDDB has identified one State-listed bird in the vicinity of the Project area and has recommended protective measures to be employed during Project construction to avoid unintended encounters and mitigate for potential adverse effects. UI is committed to implementing and maintaining appropriate protective measures prior to and during construction.

State Threatened Peregrine Falcon (Falco peregrinus)

The NDDB identified a peregrine falcon nest located on the I-95 bridge over the Pequonnock River in Bridgeport. The peregrine falcon nesting season occurs from April 1 through July 31, and peregrine falcon are very territorial during the breeding season and will make their presence known if in close proximity to a nest site.

Additional correspondence with a DEEP wildlife biologist confirmed the location of the nest and that the nest was active as of 2022. If any construction of the Project is conducted during the active nesting season, CT DEEP recommends a 330-foot buffer between active construction equipment locations that are not in the nest's line-of-sight, or a 660-foot buffer from nests that are in the line-of-sight of construction work areas. UI coordinated with CT DEEP regarding the nest location on the I-95 bridge and based on the location of work within the Project area, UI can avoid impacting this species. UI is committed to following the listed guidelines provided by CT DEEP and will implement all measures necessary to avoid any impact to the peregrine falcon and nest, and will continue coordination with CT DEEP as necessary.

State Special Concern Blueback Herring (Alosa aestivalis)

The NDDB identified records of blueback herring in the Mill River in Fairfield. Based on current Project plans, UI does not anticipate any in-water work within the Mill River. If the scope of the Project changes and in water work is required within Mill River, UI will consult further with CT DEEP to analyze potential impacts, mitigation, and permitting as necessary.

⁶ The northern long-eared bat is federally-listed as threatened until the Final Rule to reclassify the species as endangered goes into effect on March 31, 2023.



7.3 FEDERALLY LISTED SPECIES

Northern Long-Eared Bat (Myotis septentrionalis)

The northern long-eared bat will be reclassified by USFWS from Threatened to Endangered on March 31, 2023, when the Final Rule for this species will go into effect. There are currently no documented northern long-eared bat maternity roost trees in Connecticut, and the nearest northern long-eared bat habitat resource to the proposed activity is located in the Town of Greenwich, Connecticut, over 15 miles from the western end of the Project. Tree removal within the Project area is limited. Considering the recent relisting of this species from "Threatened" to "Endangered", UI expects to continue to coordination with USFWS further to avoid impacts to northern long-eared bat and review guidance from USFWS as it becomes available.

Red Knot (Calidris canutus rufa)

The red knot is a shorebird typically found along the Connecticut coastline during northbound and southbound migrations between wintering locations in South American and the Caribbean and nesting locations in the arctic. These birds spend most of their time foraging along the waterline within the intertidal zone. Not known to occur at inland locations, red knots can be found on Connecticut's barrier beaches from mid-April to the end of May, and then again from July through mid-September when they utilize the beaches as a stopover point during their migrations. Sometimes non-breeding individuals may linger along Connecticut barrier beaches between migratory periods, and late individuals may pass through on Southbound migration well into November.

Migration habitats include both high-energy ocean or bay-front areas, as well as tidal flats in more sheltered bays and lagoons. Preferred wintering and migration microhabitats are muddy or sandy coastal areas, specifically, the mouths of bays and estuaries, unimproved tidal inlets, and tidal flats. In many wintering and stopover areas, quality high tide roosting habitat (i.e., close to feeding areas, protected from predators, with sufficient space during the highest tides, free from excessive human disturbance) is limited.

Most of the 115-kV transmission line rebuild work will be localized along or near the CT DOT corridor, which provides no suitable foraging habitat for red knot. The majority of the Project will remain within the highly disturbed CT DOT corridor, except for the crossings of Ash Creek along the UI corridor and the Pequonnock River. The 0.23-mile UI ROW between the CT DOT corridor and Ash Creek Substation will require work in the Ash Creek tidal wetlands and will span Ash Creek and intertidal habitats associated with the creek. However, work in this area will be conducted mostly in upland disturbed areas along Ash Creek, though, temporary access across a small portion of Ash Creek will be required to reach an existing lattice structure that is located on a small rocky island. This work will be required to rebuild the existing transmission lines, including the removal of an existing steel lattice tower. Access may be required via a bridge or timber matting across a narrow area of the intertidal zone that is exposed during low tide. Suitable habitat for this shorebird, which utilizes Connecticut beaches during northbound and southbound migrations, is not present within the Project area.

Roseate tern (Sterna dougallii dougallii)

Roseate terns are a shorebird that have a white body and black head cap, with a rosy tint on the breast and bright orange-red legs and feet that are easily identifiable. This species nests in colonies along sand or gravel beaches or along rocky offshore islands, often occurring near shallow water for fishing. Nests are often found under dense grass or under boulders. Roseate terns arrive in Connecticut in



late April to early May and stay through the summer months before leaving for wintering locations in South America.

A large colony of nesting roseate terns is located on Falkner Island, which is 3 miles off the coast of Guildford, Connecticut and approximately 28 miles from the Project area. Smaller colonies also occur on barrier beach islands and saltmarsh islands, with historic reported colonies on Duck Island near Clinton, Connecticut (approximately 37.5 miles from the Project area) and Tuxis Island near Madison, Connecticut (approximately 31 miles from the Project area). Populations of roseate tern are also reported at the Connecticut Audubon Society Coastal Center at Milford Point (4.5 miles east of the Project area), Cockenoe Island in Westport (4.3 miles southwest of the Project area), Sandy Point Bird Sanctuary (15 miles east of the Project area), Hammonasset Beach State Park (30 miles east of the Project area), and Harness State Park (56 miles east of the Project area).

The type of coastal habitat preferred by roseate terns is not present within or near the Project area. Intertidal areas associated with Ash Creek are present, but nesting habitat for roseate tern is not likely since the Ash Creek crossing is inland and does not have the rocky, coastal nesting habitat required by this species.

Monarch Butterfly (Danaus plexippus)

The monarch butterfly is large, easily recognizable butterfly with orange and black wings that is well known for its transcontinental migrations each year. This butterfly is found throughout Connecticut in the summer months, and prefers weedy areas along roadsides, pastures, and fields where milkweed (Asclepias spp.) is found. Monarchs lay their eggs on milkweed, their only caterpillar host plant, and as caterpillars, monarchs feed exclusively on the leaves of milkweed. North America has several dozen native milkweed species with which monarchs coevolved and upon which they rely to complete their life cycle. Habitat loss and fragmentation has occurred throughout the range of the monarch butterfly, and populations have declined significantly over the past 20 years. Pesticide use can destroy the milkweed plants that monarchs need to survive.

After extensive review by USFWS, it was determined in December 2020 that listing the monarch butterfly under the Endangered Species Act is warranted but precluded at this time due to higher priority listing actions. Therefore, the monarch butterfly is currently unlisted federally, and is considered a candidate species for future listing. USFWS will review the status of monarch butterfly each year. Since the monarch butterfly is an unlisted candidate species and is not currently listed, there are generally no USFWS Section 7 requirements at this time.

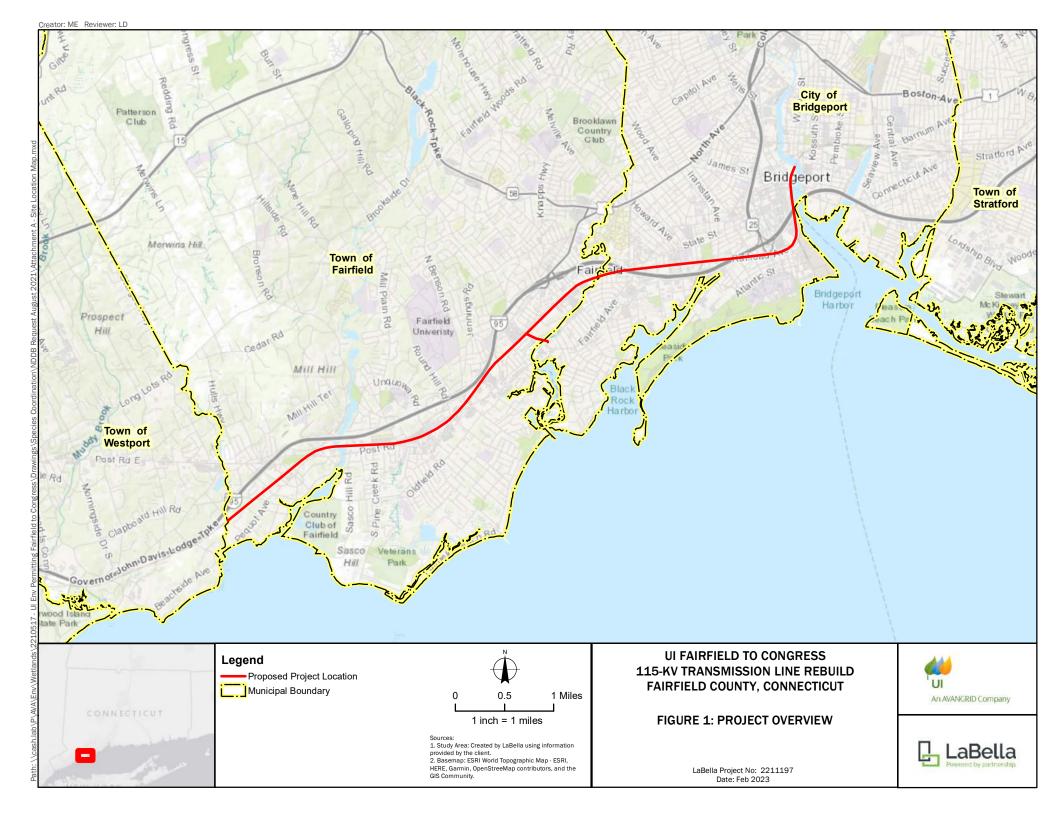
7.4 ADDITIONAL SPECIES

While not a listed species in Connecticut, osprey (*Pandion haliaetus*) are known to nest in the vicinity of the CT DOT corridor. Disturbance to ospreys is prohibited under the Federal Migratory Bird Treaty Act, as well as the Connecticut General Statutes Section 26-92.

Within the Project area, a confirmed active (as of 2022) osprey nest is located on the existing lattice structure located on a small rocky island in Ash Creek, immediately north of the Ash Creek Substation. Similarly, osprey nests are located on catenary structure B672 and the lattice tower located near the train station in Bridgeport. An osprey nest is also located on catenary structure B647, however this structure is located just west of the Project area, and no work is planned at this catenary structure.



UI is currently aware of these four osprey nests (one of which is outside of the Project area) and expects to coordinate further with CT DEEP regarding the osprey nests in relation to the proposed Project activities.







ATTACHMENT A

Water Resources Delineation Report





WATER RESOURCES DELINEATION REPORT Fairfield to Congress - 115kV T-Line Project Fairfield County, CT

BL Project No.: 2102261

Prepared for

Westwood Surveying and Engineering, P.C. 75 Thruway Park Drive, Suite A West Henrietta, NY 14586

Prepared by

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September 20, 2022

Water Resources Delineation Report

Fairfield to Congress - 115kV T-Line Project Fairfield Co., CT

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I. INTRODUCTION

BL Companies, Inc. (BL) conducted a site investigation to delineate state and federal wetlands and Waters of the United States, state regulated tidal resources including all land below the coastal jurisdiction line (CJL) and tidal vegetation up to one-foot above the CJL and to identify vernal pools and complete a habitat assessment for federally and state listed species within the corridor along approximately 7.5 miles of the Metro-North Railroad. The project area is located in the County of Fairfield, Connecticut (Figure 1, below, and Appendix A). The coordinates for the approximate southwestern and northeastern ends of this linear project are N 41.130058 / W 73.296132 and N 41.184136 / W 73.185377, respectively. The resource delineation, vernal pool investigation, and habitat assessment followed the railroad corridor map provided by United Illuminating (UI) Company and verified by BL's survey crew. The project area is a linear corridor approximately 7.5 miles long and varying in width from approximately 100 feet to 250 feet wide on the north and south sides of the Metro-North Railroad and associated wetlands in the vicinity of the right-of-way (hereinafter referred to as the "project area"). The Project area also includes a 0.23-mile existing UI right-of-way (ROW) that extends between the railroad corridor and Ash Creek Substation and is presently occupied by lattice steel towers that support two UI 115-kV lines.

The project area lies within the Pequonnock River-Frontal Long Island Sound drainage basin (0110000603). The project area does not fall within a public water supply or Aquifer Protection Area (APA). Multiple portions of the project area fall within the Coastal Area Management (CAM) zone. Coastal resources within the CAM portion of the project area include intertidal flats, tidal wetlands, and coastal flood hazard areas. Several coastal and inland resources were identified on the U.S. Fish and Wildlife Service's National Wetlands Inventory (NWI) mapping. Preliminary review of soil mapping provided by the Natural Resource Conservation Service did not identify any areas of hydric, poorly drained, or very poorly drained soils. Federal Emergency Management Agency (FEMA) mapping indicates that floodplain and floodway are present throughout the corridor. NWI, Soils, FEMA, and Resource mapping is provided in **Appendix B**.

The purpose of this report is to document and describe state and federal jurisdictional wetlands, i.e., Waters of the United States, tidal wetlands and coastal resources, as well as identify vernal pools. It should be noted that vernal pools can only be accurately identified during the early spring while water levels are high and signs of amphibian breeding are evident. Vernal pools in Connecticut are based upon certain obligate species being present and utilizing the pool for breeding. The wetland delineations were completed during the appropriate time of year to assess vernal pools, in the spring of 2019, and no evidence of vernal pool species was observed throughout the project limits.

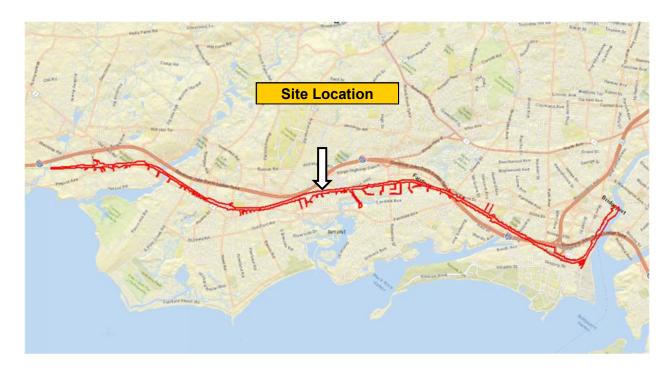


Figure 1 - Project Area Location Map near Fairfield & Bridgeport, CT (Fairfield County)

II. METHODS

This investigation involved a wetland/watercourse delineation that was completed by wetland scientists and a Certified Professional Soil Scientist (CPSS) and conducted in accordance with the principles and practices noted in the United States Department of Agriculture (USDA) Soil Survey Manual (1993). The soil classification system of the National Cooperative Soil Survey was used in this investigation to identify the soil map units present on the project area.

Vegetation, soils, and hydrology were observed and documented during the site investigation in accordance with state and federal delineation methodologies. Soil types were identified by observing soil morphology (soil texture, color, structure, etc.). To observe the morphology of the soils, hand borings are completed. Where wetland and/or watercourses were determined to be present, their boundaries were identified with flags, which were hung from vegetation, or small stakes if in fields or grass communities. These flags are labeled "Wetland Boundary" and generally spaced approximately 50 feet apart. It is important to note that flagged wetland and watercourse boundaries are subject to verification by local, state, and/or federal regulatory agencies.

III. REGULATORY INFORMATION

Wetlands and watercourses are regulated by both state, municipal and federal laws and regulations, each with different definitions and regulatory requirements. Accordingly, the

State and municipalities may regulate wetland and waters that fall outside of federal jurisdiction; however, where federal jurisdiction exists, concurrent State jurisdiction is almost always present.

State/Municipal Jurisdiction

Inland wetland determinations are based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land. Watercourses are defined as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." Intermittent watercourse determinations are made based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus, (2) the presence of standing or flowing water for a duration longer than a particular storm incident, and (3) the presence of hydrophytic vegetation. (See Inland Wetlands and Watercourses Act §22a-38 CGS.) Municipalities may impose additional regulations on inland wetlands and watercourses but have no jurisdiction over state-regulated tidal wetlands.

The Connecticut Department of Energy and Environmental Protection's (DEEP) Office of Long Island Sound Programs (OLISP) regulates all activities conducted in tidal wetlands and in tidal, coastal or navigable waters in Connecticut under the Structures, Dredging and Fill Act (Conn. Gen. Statutes (CGS) Sec. 22a-359 - 22a-363f, inclusive) and the Tidal Wetlands Act (CGS Sec. 22a-28 - 22a-35, inclusive). Recently, The High Tide Line (HTL), which was used as the jurisdictional limit for DEEP OLISP, was replaced by a Coastal Jurisdiction Line (CJL). The CJL elevation for Fairfield is 5.2' and 5.0' for Bridgeport (NAVD 88). Tidal wetlands are also separately regulated below the CJL, and up to one foot above the CJL if the area is deemed "capable of supporting" tidal wetland vegetation based on field investigations, through identification of certain plants and the presence of tidal waters.

Federal Jurisdiction

Jurisdictional wetlands at the Federal level consist of "waters of the United States", which includes lakes, rivers and streams, as well as vegetated wetlands (See 33 CFR 328.8). The on-site waters and wetlands, regulated by the U.S. Army Corps of Engineers (ACOE), were delineated in accordance with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual Northcentral and Northeast Region (Version 2.0) (January 2012). This Manual requires there to be dominant hydrophytic vegetation, hydric soils, and hydrological conditions present in determining wetland areas.

Federal coastal jurisdiction under the Section 404 Clean Water Act includes navigable waters of the US below the High Tide Line (HTL). Federal jurisdiction includes all waters and their tributaries to the head of tide, which extends shoreward to the mean highwater line under Section 10 of the Rivers and Harbors Act and extends shoreward to the 1-year frequency tidal flood under Section 404 of the Clean Water Act.

IV. FUNCTIONS AND VALUES

Biophysical elements such as a wetland's landscape position, size, geology, hydrology, substrate, and vegetation determine the wetland functions and to what capacity they are performed. Due to the differing biophysical characteristics between on-site wetlands, the functions the wetlands provide and the capacity to perform those functions vary. To better understand these differences, a description of the assessed wetland functional values was completed based on the United States Army Corps of Engineers (ACOE) Highway Methodology Workbook (1993) and its supplement workbook. This method requires a description of each of the wetland communities as well as indicating the functions they provide. The ACOE workbook includes the following thirteen (13) functions and values that have been recognized as functions wetlands can provide:

- Groundwater Recharge/Discharge,
- Flood flow Alteration,
- Fish and Shellfish Habitat,
- Sediment/Toxicant Retention,
- Nutrient Removal/Retention/Transformation,
- Production Export,
- Sediment/Shoreline Stabilization,
- Wildlife Habitat,
- Recreation.
- Education/Scientific Value,
- Uniqueness/Heritage,
- Visual Quality/Aesthetics, and
- Threatened and Endangered Species Habitat.

V. SITE INVESTIGATION

The project area was investigated on various dates in April and May 2019 and April 2022 and under various meteorological conditions. As field work was conducted early in the growing season, many vegetation specimens, particularly herbaceous species, were difficult to identify. Dates during which field investigations were conducted are noted on data forms in **Appendix E**.

The field investigations were conducted within the area of the Metro-North Railroad corridor, a transportation corridor constructed over 100 years ago and in constant use since then. The field investigations also included a 0.23-mile existing UI right-of-way (ROW) that extends between the railroad corridor and Ash Creek Substation and is presently occupied by lattice steel towers that support two UI 115-kV lines. As such, this historic land use and both past and present anthropogenic actions have affected the ecology of areas within the railroad right-of-way.

Areas identified as jurisdictional features at the federal, state and municipal levels during the field investigations included:

Identifier	USFWS NWI Classification or Stream Designation	USDA WSS Soils Map Unit	Notes
Tidal Wetland A	E2EMP5d	Udorthents- Urban Land Complex	Adjoining Sasco Creek, ponded areas during high tide. This wetland is located west of the Fairfield-Congress Project Start Location.
Stream 1 (Sasco Creek, Tidal)	E1UBL	N/A	Tidally influenced watercourse, located west of the Fairfield-Congress Project Start Location.
Wetland B	PEM	Udorthents- Urban Land Complex	Adjoins Stream 2. Receives hydrology from Stream 2.
Stream 2	R5UBh1	N/A	Perennial stream, culverted under the ROW.
Stream 3	R5UBh1	N/A	Perennial stream, located on the south side of the ROW.
Stream 4	R6	N/A	Receives rain run-off, located at toe slope of rip rap of railroad.
Stream 5	R4SBC1	N/A	Flows intermittently into Wetland C.
Wetland C	PEM	Udorthents- Urban Land Complex	Adjoins Stream 5. Receives hydrology from Stream 5.
Wetland D	PEM	Udorthents- Urban Land Complex	Adjoining Mill River, fringe-type wetlands. Vegetation community predominantly composed of <i>Phragmites</i> .
Stream 6 (Mill River)	R2UBH	N/A	Riverine watercourse, flows into Southport Harbor, crosses under ROW and continues outside of ROW.
Wetland E	PEM/PFO	Udorthents- Urban Land Complex	To the north of the railroad, vegetation community predominantly composed of <i>Phragmites</i> and Acer rubrum.

Identifier	USFWS NWI Classification or Stream Designation	USDA WSS Soils Map Unit	Notes
Wetland F	PEM	Urban Land	To the south of the railroad, vegetation community predominantly composed of <i>Phragmites</i> .
Stream 7	R5UBh1	N/A	Crosses under the ROW, via culvert, into Stream 8.
Stream 8	R5UBh1	N/A	Stream 8 flows parallel to the railroad tracks within the ROW, then off the ROW to the south.
Stream 9	R5UBh1	N/A	Stream 9 crosses under the ROW, via culvert, then off the ROW to the south.
Wetland G	PEM	Udorthents- Urban Land Complex	Adjoins Stream 9. Located to the north of the railroad, vegetation community predominantly composed of <i>Phragmites</i> .
Wetland H	PEM/PSS	Udorthents, smoothed / Udorthents- Urban Land Complex	Adjoins Stream 10. Located to the south of the railroad, this wetland is comprised of a conservation easement and is tidally influenced. Located along the UI ROW to Ash Creek SS.
Stream 10	R5UBh1	N/A	Located south of the railroad, flowing parallel to the railroad. Located along the UI ROW to Ash Creek SS.
Tidal Watercourse 11	R5UBh1	N/A	Located south of the railroad, flows south into Estuarine habitat. Located along the UI ROW to Ash Creek SS.
Tidal Watercourse12	R5UBh1	N/A	Located south of the railroad, flows parallel to the western side of the UI ROW and into Estuarine habitat. Located along the UI ROW to Ash Creek SS.
Stream 13 (Ash Creek, Tidal)	E1UBL	N/A	Tidally influenced watercourse, Crosses under RR ROW in a north to south direction, continues outside the ROW and then under UI ROW in an east to west direction. Located along the UI ROW to Ash Creek SS.
Tidal Wetland I	E1UBL	N/A	Adjoins Stream 13 (Ash Creek, Tidal). Located to the south of the railroad, this wetland is tidally influenced. Located along the UI ROW to Ash Creek SS.

Identifier	USFWS NWI Classification or Stream Designation	USDA WSS Soils Map Unit	Notes
Tidal Wetland J	E1UBL	N/A	Adjoins Stream 13 (Ash Creek, Tidal). Located to the south of the railroad, this wetland is tidally influenced.
Stream 14 (Pequonnock River)	E1UBL	N/A	Tidally influenced watercourse, Crosses under ROW in a north to south direction. Parallels portions of the ROW.

Data on the current plant communities, soils, and hydrology were documented to support the wetland delineation using Army Corps Wetland Determination Data Forms. Some of the common plant species observed in the study area are listed in **Table 1**. Descriptions of the delineated wetland resources are provided in Section VI. The delineated wetlands and watercourses and location of the data points are identified on the wetland mapping located in **Appendix C**. Delineated coastal resources are included with the mapping provided in **Appendix C**. Photographs of the identified wetland resources, taken to provide visual documentation of the area, are located in **Appendix D**, and data sheets are located in **Appendix E**.

Table 1: Common Plants in the Study Area and the Wetland Indicator Status

Common Name	Scientific Name	Indicator Status			
	Tree Stratum				
Pin oak	Quercus palustris	FACW			
Red Maple	Acer rubrum	FAC			
	Sapling, Shrub and Vine Stratum				
Tartarian honeysuckle	Lonicera tatarica	FACU			
White ash	Fraxinus americana	FACU			
Rambler rose	Rosa multiflora	FACU			
Herb Stratum					
Common reed	Phragmites australis	FACW			
Broadleaf cattail	Typha latifolia	OBL			
Jewelweed	Impatiens capensis	FACW			

VI. RESOURCE DESCRIPTIONS

During wetland delineation activities conducted in April and May 2019 and April 2022, two wetland areas and one stream on the western side of Sasco Creek were previously delineated and were initially included as part of the project area. Recent changes to the proposed project indicate that these features are no longer part of the project area, and only wetlands and streams to the east of Sasco Creek are included within this report.

Wetland Complex A

Tidal Wetland A: USFWS Classification: E2EMPd/E2EMP5d

Tidal Wetland A is classified as an estuarine intertidal emergent irregularly flooded partially drained/ditched wetland (E2EMPd) and an estuarine intertidal emergent irregularly flooded Phragmites australis partially drained/ditched wetland (E2EMP5d) located on both sides of the railroad bed. These areas flood during high tide. This wetland is located west of the Fairfield-Congress Project Start Location.

The soil series identified is Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for development. Hydrologic conditions are influenced by diurnal fluctuations of Sasco Creek.

Tidal Wetland A provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, shellfish habitat, and nutrient removal.

This area is designated as "Zone AE" & "Zone VE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 1 (Sasco Creek, Tidal): USFWS Classification: E1UBL

Stream 1 (Sasco Creek, Tidal) is classified as an estuarine subtidal unconsolidated bottom subtidal (E1UBL) watercourse according to USFWS National Wetland Inventory (NWI) mapping. The watercourse flows south into the Long Island Sound and is subject to the ebb and flood of the tides. The substrate of the creek consists of an unconsolidated organic muck. During low tide, expanses of the substrate are exposed, forming intertidal flats that provide habitat for shellfish, namely mussels, and foraging habitat for birds. Some intertidal areas are stabilized with dense vegetation, forming low and high marsh habitat. Slopes in the vicinity of the railroad crossing over the creek are protected by riprap, which also provides substrate for mussels and tidal vegetation. Sasco Creek is located west of the Fairfield-Congress Project Start Location.

This area is designated as "Zone AE" & "Zone VE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex B

Wetland B: USFWS Classification: PEM

Wetland B is classified as a palustrine emergent (PEM) wetland located south of the Metro-North ROW and west of Westway Road. This area was delineated using sequentially numbered flags 1 through 8 (open loop). The wetland is dominated by red maple (Acer rubrum), which is a "facultative" wetland species and common reed (Phragmites australis), which is a "facultative wetland" species.

The soil series identified is Scarboro muck, 0 to 3 percent slopes, which consists of very deep, very poorly drained soils in sandy glaciofluvial deposits on outwash plains, deltas, and terraces. They are nearly level soils in depressions.

This wetland provides the following functions and values: flood flow alteration and sediment / toxicant retention.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 2: USFWS Classification R5UBh1

Stream 2 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Stream 2 is located perpendicular to the railroad ROW and crosses under the railroad via culvert. The stream eventually flows into Wetland B. The watercourse is approximately 2 feet wide and contained within a stone-lined channel. Water depth varied from approximately 10 inches to 15 inches deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex C

Stream 3: USFWS Classification R5UBh1

Stream 3 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Stream 3 originates from a culvert and is located perpendicular to the railroad ROW. The watercourse is approximately 2 feet wide and contained within a manipulated drainage channel. Water depth varied from approximately 5 inches to 15 inches deep.

This area is designated as "Zone X" in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 4: USFWS Classification R6

Stream 4 is not identified on NWI mapping, but is classified as a riverine, ephemeral (R6) watercourse. Stream 4 is located parallel to the railroad tracks, along the toe slope of rip rap along the railroad tracks. It appears this watercourse flows only during rain events and receives hydrology from surrounding landscape. The watercourse is approximately 1.5 feet wide with a rip rap substrate.

This area is designated as "Zone X" in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland C: USFWS Classification: PEM

Wetland C is classified as a palustrine emergent wetland (PEM) located on the north side of the railroad bed. This is a small, closed, linear feature. This area was delineated using sequentially numbered flags 1 through 10.

The soil series identified is Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for development.

Wetland C provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, and nutrient removal.

This area is designated as "Zone X" in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 5: USFWS Classification R4SBC1

Stream 5 is not identified on NWI mapping but is classified as a riverine intermittent unconsolidated bottom seasonally flooded (R4UBC1) watercourse. Stream 5 is located north of the railroad ROW, originating from upland drainage associated with local roadways. The substrate in the watercourse consists largely of silt and leaf litter and is interspersed with cobble and gravel. The watercourse is approximately 1.5 feet wide. This watercourse eventually flows into Wetland C.

This area is designated as "Zone X" in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex D

Wetland D: USFWS Classification: PEM

Wetland D is classified as a palustrine emergent wetland (PEM) located on the north side of the railroad bed. This wetland is considered fringe wetlands to Mill River. The vegetation community is predominantly composed of *Phragmites*. This area was delineated using sequentially numbered flags 1 through 8.

The soil series identified is Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for development.

Wetland D provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, and nutrient removal.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 6 (Mill River): USFWS Classification: R2UBH

Stream 6 (Mill River) is classified as a riverine lower perennial unconsolidated bottom permanently flooded (R2UBH) watercourse. This watercourse flows directly into the Southport Harbor but does not appear to be tidally influenced based on NWI classification. The substrate of Mill River consists of unconsolidated muck and boulders. Mill River appears to be approximately 70 feet at the location of the railroad crossing.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex E

Wetland E: USFWS Classification: PEM/PFO

Wetland E is classified as a palustrine emergent (PEM) and palustrine forested (PFO) wetland located north of the Metro-North ROW and south of Interstate 95. This small wetland is heavily affected by anthropogenic activities (I-95 to the north and the railroad to the south) and receives hydrology from a drainage swale. This area was delineated using sequentially numbered flags 1 through 10. The wetland is dominated by common reed (*Phragmites australis*) and red maple (*Acer rubrum*), which are "facultative wetland" and "facultative" wetland species, respectively.

The soil series identified is Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for development. Hydrologic conditions are influenced by the storm events and surface ponding.

This wetland provides the following functions and values: flood flow alteration and sediment / toxicant retention.

This area is designated as "Zone X" in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland F: USFWS Classification: PEM

Wetland F is classified as a palustrine emergent (PEM) wetland located south of the Metro-North ROW and north of Eliot Street. This small wetland is heavily affected by anthropogenic activities (shopping center to the south and the railroad to the north) and receives hydrology from the impervious surfaces of the shopping center. This area was delineated using sequentially numbered flags 1 through 11. The wetland is dominated by common reed (*Phragmites australis*), which is a "facultative wetland" species.

The soil series identified is Urban Land. Urban Land consist primarily of areas that have been cut for leveling or filled for development. Hydrologic conditions are influenced by the storm events and surface ponding.

This wetland provides the following functions and values: flood flow alteration and sediment / toxicant retention.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex F

Stream 7: USFWS Classification R5UBh1

Stream 7 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Stream 7 is located perpendicular to the railroad ROW and crosses under the railroad via culvert, into Stream 8. The watercourse is approximately 4 feet wide with a cobble, gravel, and muck substrate. Riffles were noted throughout, and water depth was approximately 4 inches deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 8: USFWS Classification R5UBh1

Stream 8 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Stream 8 is located parallel to the railroad ROW and is heavily diked. This feature appears to flow off the ROW, to the south. The watercourse is approximately 5-7 feet wide with a muck substrate. Riffles were noted throughout, and water depth was approximately 4-12 inches deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 9: USFWS Classification R5UBh1

Stream 9 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Stream 9 flows perpendicular to the railroad and crosses underneath the ROW and continues offsite to the south. The watercourse is approximately 19 feet wide with a cobble, gravel and muck substrate. Riffles and deep pools were noted throughout, and water depth was approximately 4-12 inches deep with pools up to 2+ feet deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland G: USFWS Classification: PEM

Wetland G is classified as a palustrine emergent wetland (PEM) located on the north side of the railroad bed. This wetland is hydrologically connected to Stream 9. The vegetation community is predominantly composed of *Phragmites*. This area was delineated using sequentially numbered flags 1 through 6 and 101 through 113.

The soil series identified is Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for development.

Wetland I provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, and nutrient removal.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex G

Wetland H: USFWS Classification: PEM/PSS

Wetlands H is classified as a palustrine emergent / palustrine scrub-shrub (PEM/PSS) wetland located on the south side of the railroad. This wetland is comprised of a constructed conservation area that Stream 10 flows into and through and is partially tidally influenced along its southern areas along Ash Creek. The conservation area includes upland islands and berms as well as a raised walkway and rock spillway. The rock spillway separates the non-tidal portion of the wetland from the tidally influenced portion. The vegetation within the non-tidally influenced portion of the wetland consists primarily of Salix nigra, Salix bicolor, Phragmites australis, and Typha angustifolia. The vegetation within the tidally influenced portion of the wetland consists of Phragmites australis with smaller areas of Spartina alternifolia.

The soil series identified is Udorthents, smoothed / Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for

development. Hydrologic conditions are influenced by the storm events and surface ponding.

Wetland H provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, shellfish habitat, and nutrient removal.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 10: USFWS Classification R5UBh1

Stream 10 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Stream 10 flows perpendicular to the railroad and then turns south, flowing through Wetland H and eventually into Stream 13 (Ash Creek, Tidal). The watercourse is approximately 5 feet wide with a cobble, gravel and muck substrate. Deep pools were noted throughout, and water depth was approximately 6-10 inches deep with pools up to 2+ feet deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Tidal Watercourse 11: USFWS Classification R5UBh1

Tidal Watercourse 11 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Tidal Watercourse 11 flows south, flowing from Wetland H and eventually into Stream 13 (Ash Creek, Tidal). The watercourse is approximately 5 feet wide with a cobble, gravel and muck substrate. Deep pools were noted throughout, and water depth was approximately 6-10 inches deep with pools up to 2+ feet deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Tidal Watercourse 12: USFWS Classification R5UBh1

Tidal Watercourse 12 is not identified on NWI mapping, but is classified as a riverine, unknown perennial, unconsolidated bottom diked/impounded (R5UBh1) watercourse. Tidal Watercourse 12 originates from a culvert and is located perpendicular to the UI ROW. The watercourse is approximately 2 feet wide and contained within a manipulated drainage channel. Water depth varied from approximately 5 inches to 15 inches deep.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Stream 13 (Ash Creek, Tidal, southwestern crossing): USFWS Classification: E1UBL

Ash Creek is classified as an estuarine subtidal unconsolidated bottom subtidal (E1UBL) watercourse according to USFWS National Wetland Inventory (NWI) mapping. The watercourse flows south into the Long Island Sound and is subject to the ebb and flood of the tides. The substrate of the creek consists of an unconsolidated organic muck. During low tide, expanses of the substrate are exposed, forming intertidal flats that provide habitat for shellfish, namely mussels, and foraging habitat for birds. Some intertidal areas are stabilized with dense vegetation, forming low and high marsh habitat. The vegetation forming the marsh habitats consists primarily of *Spartina alterniflora*, with smaller amounts of *Phragmites australis*.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Tidal Wetland I: USFWS Classification: PEM/PSS

Tidal Wetland I is classified as a palustrine emergent (PEM) wetland located on the south side of the railroad. This wetland is tidally influenced along Ash Creek. The vegetation within this tidally influenced wetland consists of *Phragmites australis* with smaller areas of *Spartina alternifolia*.

The soil series identified is Udorthents, smoothed / Udorthents-Urban land complex. Udorthents consist primarily of areas that have been cut for leveling or filled for development. Hydrologic conditions are influenced by the storm events and surface ponding.

Tidal Wetland I provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, shellfish habitat, and nutrient removal.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex H

Stream 13 (Ash Creek, Tidal, northeastern crossing): USFWS Classification: E1UBL

Ash Creek is classified as an estuarine subtidal unconsolidated bottom subtidal (E1UBL) watercourse according to USFWS National Wetland Inventory (NWI) mapping. The

watercourse flows south into the Long Island Sound and is subject to the ebb and flood of the tides. The substrate of the creek consists of an unconsolidated organic muck. During low tide, expanses of the substrate are exposed, forming intertidal flats that provide habitat for shellfish, namely mussels, and foraging habitat for birds. The intertidal areas are stabilized with dense vegetation, forming high marsh habitat. The vegetation forming the marsh habitat consists of *Phragmites australis*. Slopes in the vicinity of the railroad crossing over the creek are protected by riprap, which also provides substrate for mussels and tidal vegetation.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Tidal Wetland J: USFWS Classification: E1UBL

Tidal Wetland J is classified as an estuarine and marine deep-water wetland (E1UBL) located on the south side of the railroad. This area floods during high tide.

The soils map identifies this area as Water.

Tidal Wetland J provides the following functions and values: groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, shellfish habitat, and nutrient removal.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

Wetland Complex I

Stream 14 (Pequonnock River): USFWS Classification: E1UBL

Pequonnock River is classified as an estuarine subtidal unconsolidated bottom subtidal (E1UBL) watercourse according to USFWS National Wetland Inventory (NWI) mapping. The watercourse flows south into the Bridgeport Harbor which is a tributary to the Long Island Sound and is subject to the ebb and flood of the tides. The substrate of the river was not observed due to safety reasons. During low tide, expanses of the substrate are exposed, forming intertidal flats that provide habitat for shellfish, namely mussels, and foraging habitat for birds. Some intertidal areas are stabilized with dense vegetation, forming low and high marsh habitat. The vegetation forming the marsh habitats consists of *Phragmites australis*. Slopes in the vicinity of the railroad crossing over the river are protected by riprap, which also provides substrate for mussels and tidal vegetation.

This area is designated as "Zone AE", which is a mapped floodplain, in the Flood Insurance Rate Map for Fairfield County, Connecticut (09001C0441G), effective July 8, 2013. Please refer to **Appendix B** for FEMA FIRM Map.

VII. VERNAL POOL INVESTIGATION

Identification of vernal pools can only be verified during the spring as they are sensitive to seasonal water fluctuations and temperatures. In a typical season, amphibians will begin their migration to a pool in late winter/early spring as the temperatures begin to rise and remain consistently above freezing and after a good amount of precipitation. Vernal pools are typically identified based on the presence of one or more obligate species which include: spotted salamander (Ambystoma maculatum), marbled salamander (Ambystoma opacum), Jefferson salamander (Ambystoma jeffersonianum), blue-spotted salamander (Ambystoma laterale), blue-spotted-Jefferson complex, wood frog (Rana sylvatica), and fairy shrimp (Anostraca). Evidence of amphibian breeding includes the presence of salamander spermatophores at the bottom of the pool, egg masses attached to overhanging vegetation, the presence of tadpoles or larvae, presence of adults within the pool or adjacent uplands, or calling adult wood frogs. Fairy shrimp are often observed through water sampling, but can sometimes be seen swimming in the pool if the water is clear enough.

In the State of Connecticut, vernal pools are identified through field verification, as an official vernal pool inventory is not in place at this time. The timing of the field study was established to coincide with the optimum time-of-year to identify vernal pools and any fauna that may use such features. During the field visits, no vernal pools were identified along the project study area.

VIII. HABITAT ASSESSMENT

According to the Resource Map (see **Appendix B**) three (3) Natural Diversity areas are crossed by the ROW. These areas surround the ROW crossings at Sasco Creek, Ash Creek, and the Pequonnock River. On September 6, 2019, BL submitted an application to request a review of state listed species from the CTDEEP Natural Diversity Database (NDDB). To date no response has been received from the CTDEEP NDDB. This correspondence can be found in **Appendix F**.

According to the U.S. Fish and Wildlife Service Information for Planning and Conservation (IPaC) tool, two (2) federally listed species may occur or could potentially be affected by activities within the project area. The northern long-eared bat (Myotis septentrionalis) and red knot (Calidris canutus rufa), which are both federally threatened.

The red knot (Calidris canutus rufa) is a federally threatened migratory shorebird that requires marsh or mudflat habitat and is known to occur along the shore in Connecticut. Potential marsh and mudflat habitat is present along portions of the tidally-influenced features throughout the corridor. According to Cornell Lab's EBird.org, the closest known occurrence of this species was recorded approximately 2,600 feet to the east of the

railroad corridor, northeast of Seaside Park; this is the most recent occurrence recorded of this species, in August 2016. Given the limited marsh and mudflat habitat present within the immediate vicinity of the project, and known occurrences within this part of the state, it is unlikely that the red knot occurs within the project area.

The northern long-eared bat (*Myotis septentrionalis*) is a federally threatened bat species. However, as stated in the IPaC correspondence dated September 6, 2019, the proposed project is not likely to result in unauthorized take of the northern long-eared bat. The official IPaC reports and EBird.org mapping can be found in **Appendix G**.

IX. SUMMARY

BL Companies identified nine (9) regulated and jurisdictional wetland areas and thirteen (13) watercourses/streams within the project area. Among these areas are Ash Creek and the Pequonnock River, parts of which were identified and mapped based on aerial photography. Due to safety concerns and prohibited access, field data could not be collected for all locations of these features. Poorly drained soils, hydric soils, hydrophytic vegetation, and hydrology were all observed in the wetland locations satisfying the criteria of the State and ACOE methodology for wetland delineations. Three (3) watercourses were tidal in nature and a fourth is perennial with tidal influence. In addition to the descriptions within the previous sections of this report, supporting data forms and photographs are attached that document the findings of the on-site field investigations.

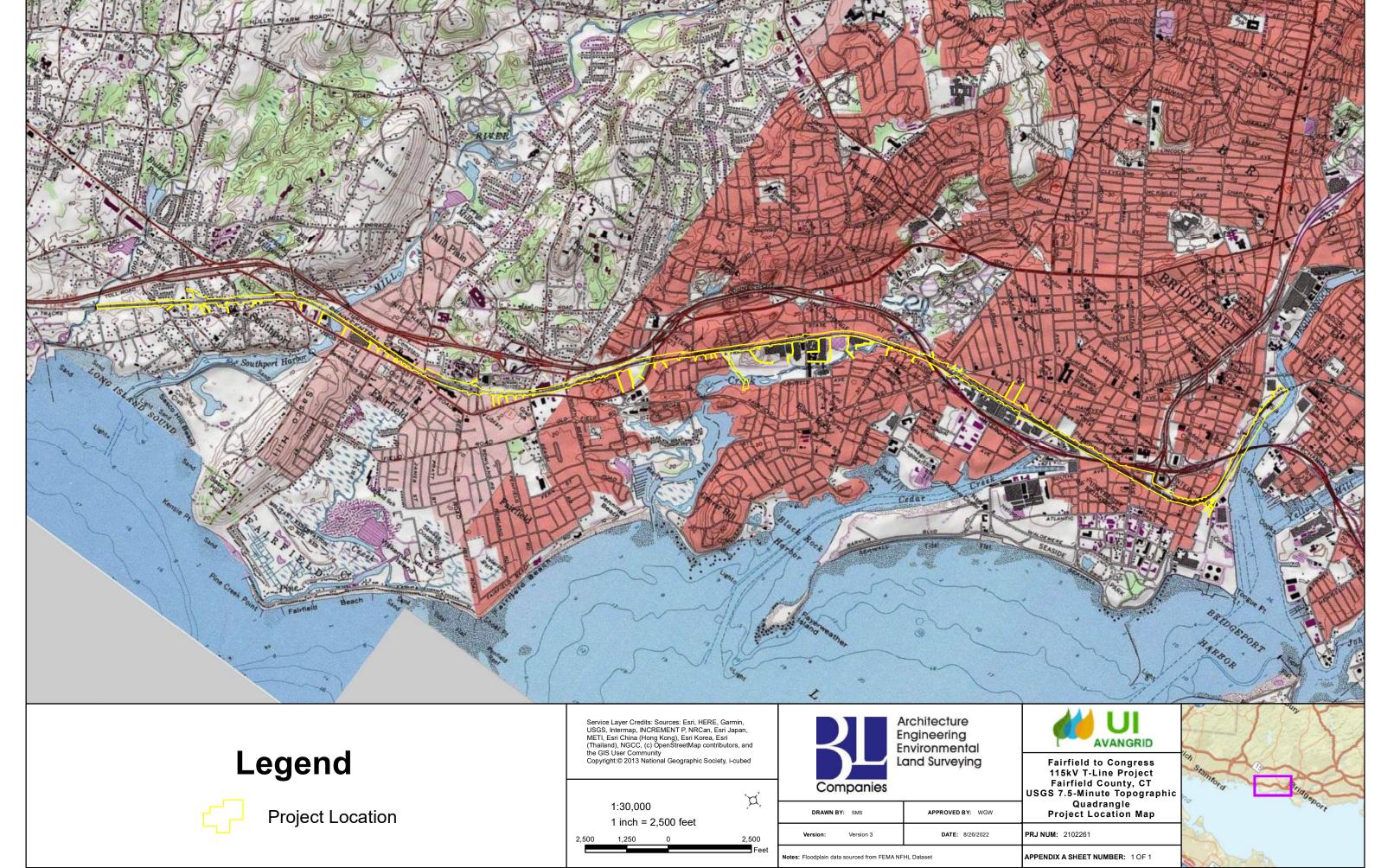
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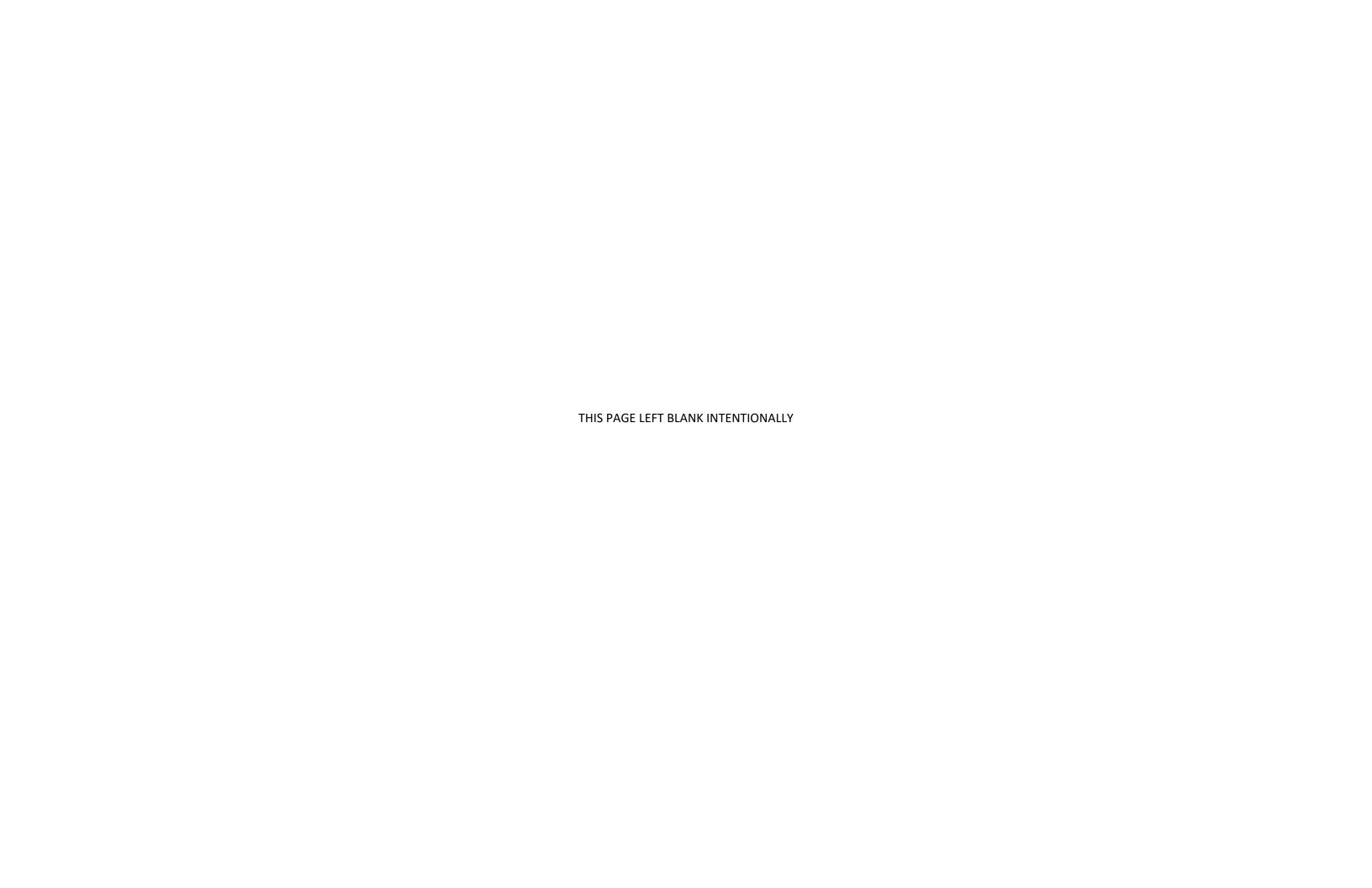
- 1. Brinson, M.M. 1993. A Hydrogeomorphic Classification for Wetlands. Tech. Rpt.WRP-DE-4, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
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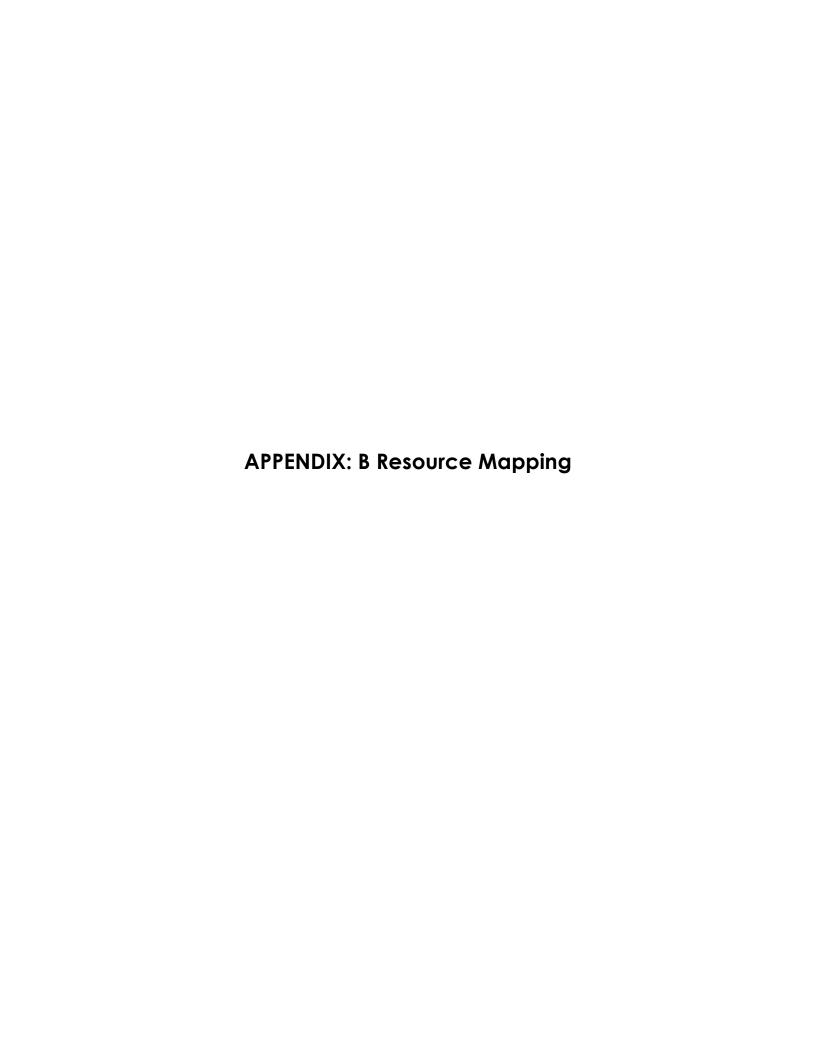


APPENDIX: A Project Location Mappin	ng

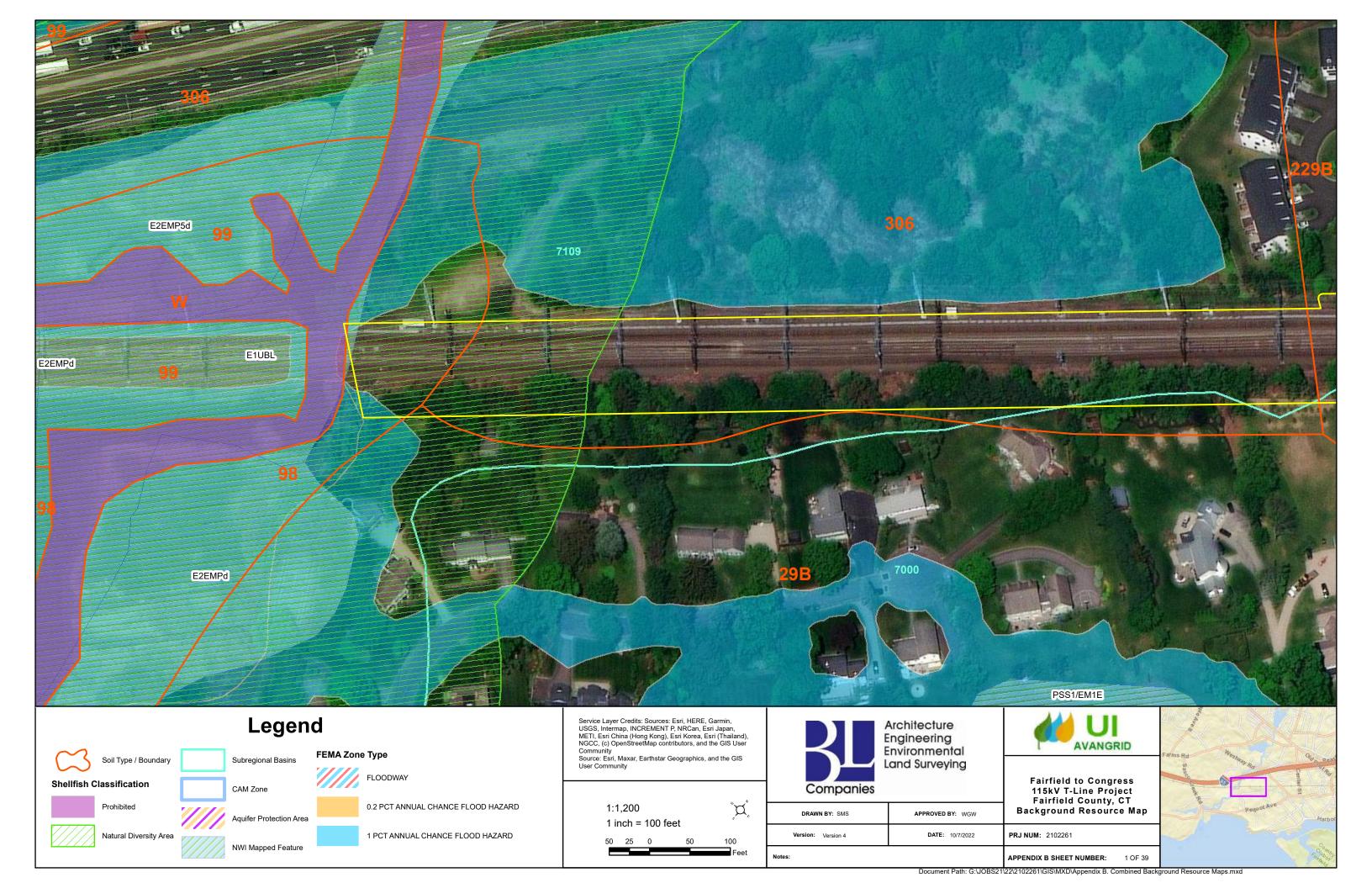


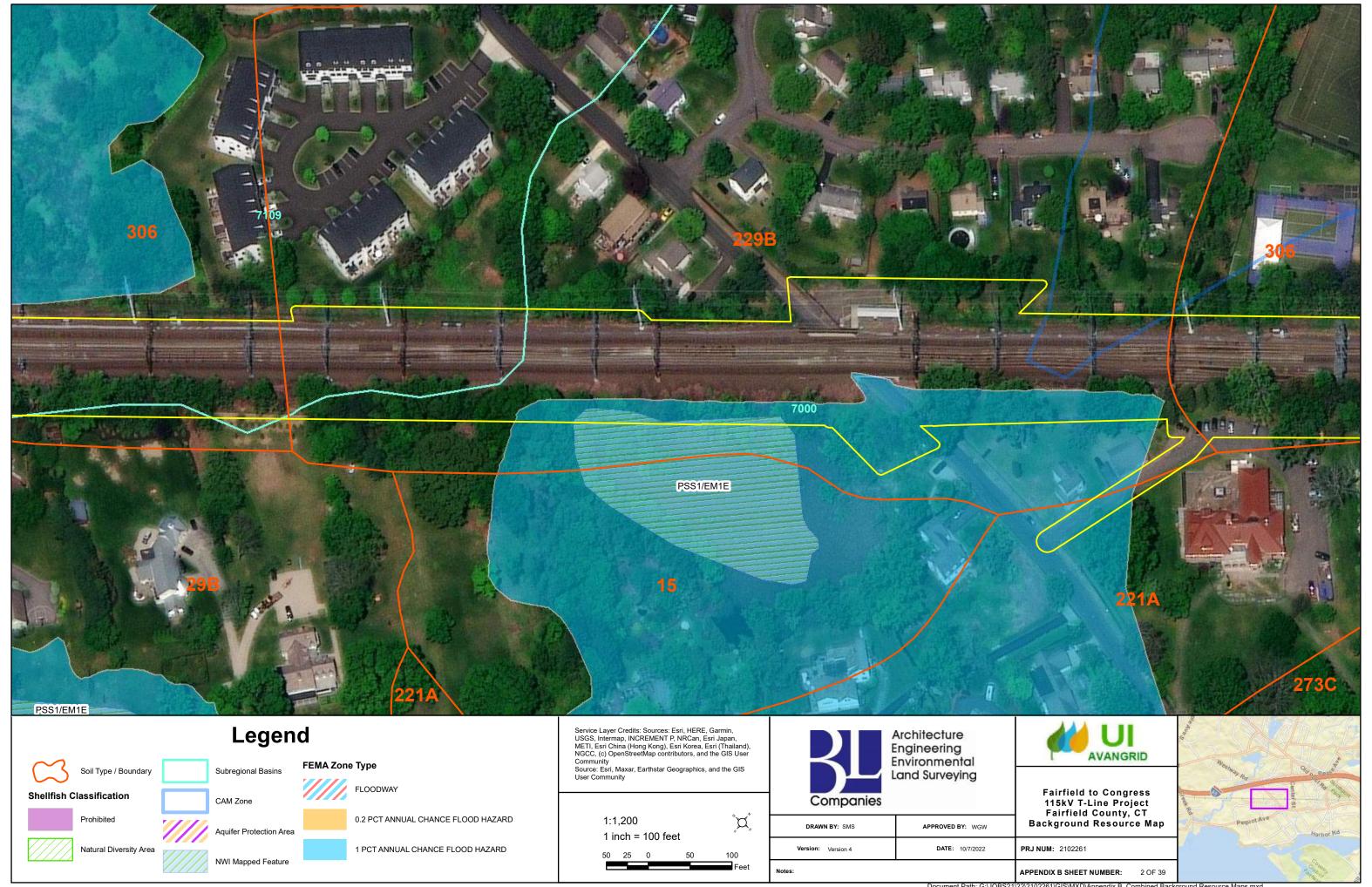


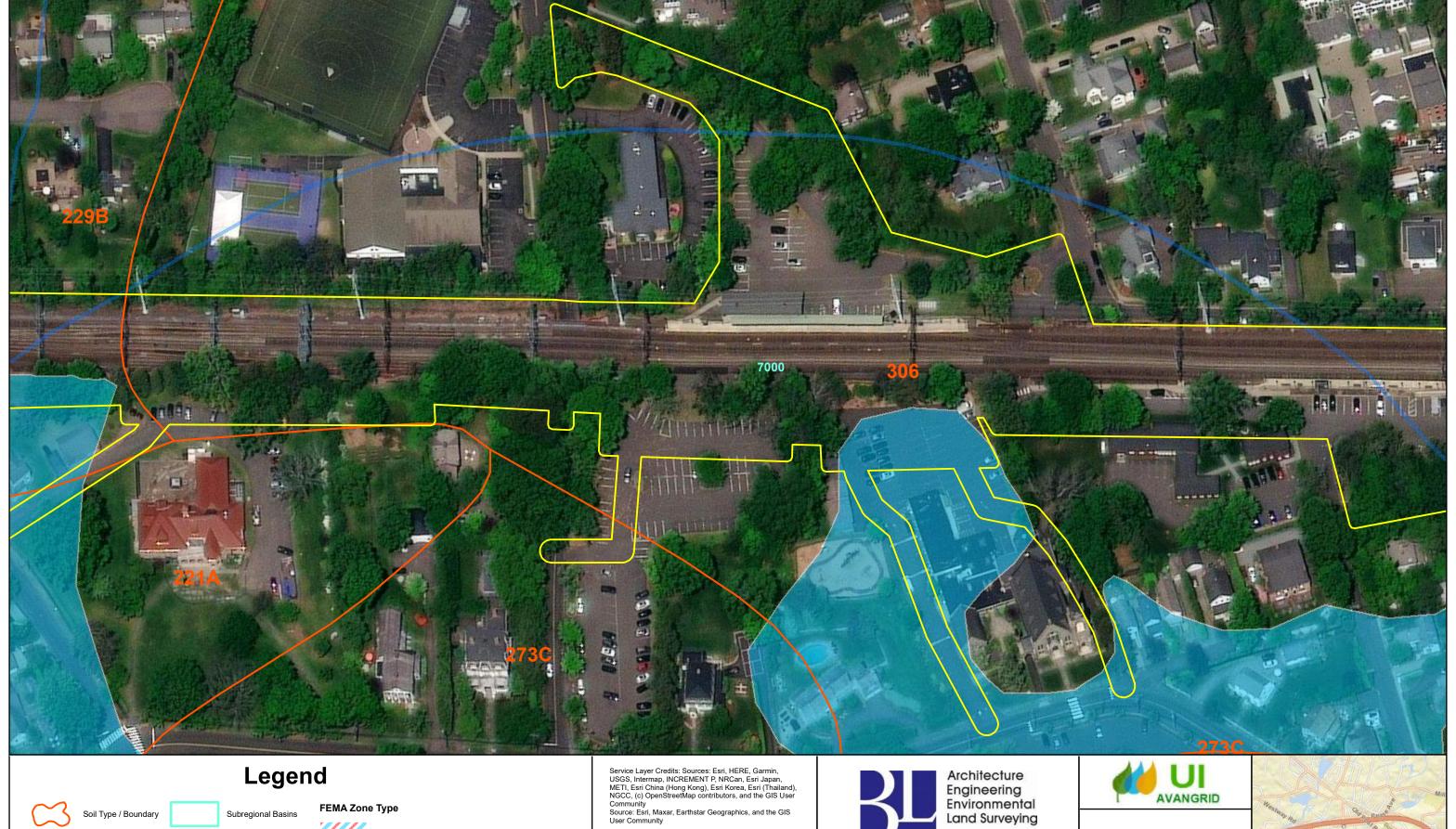














Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
User Community

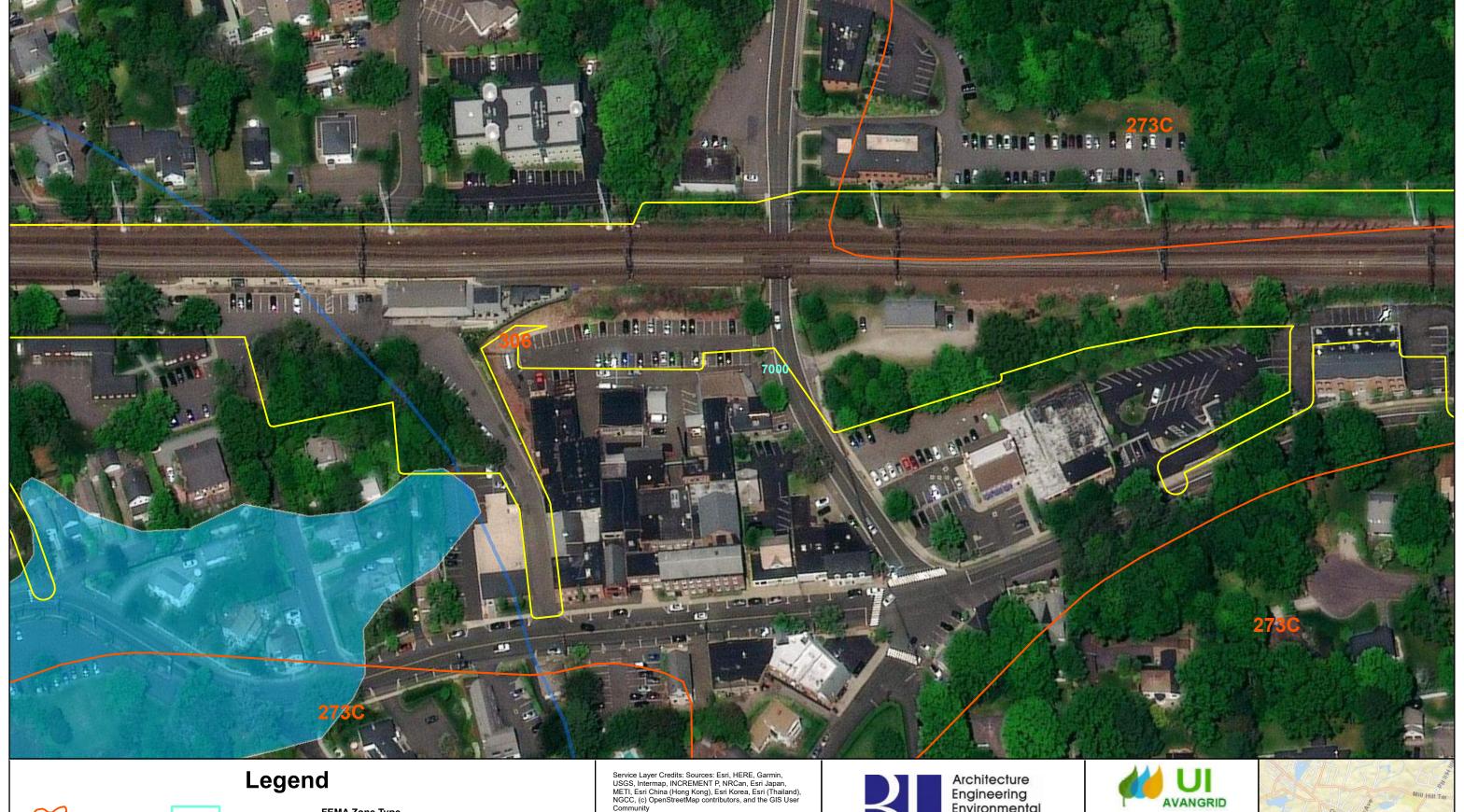
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map







Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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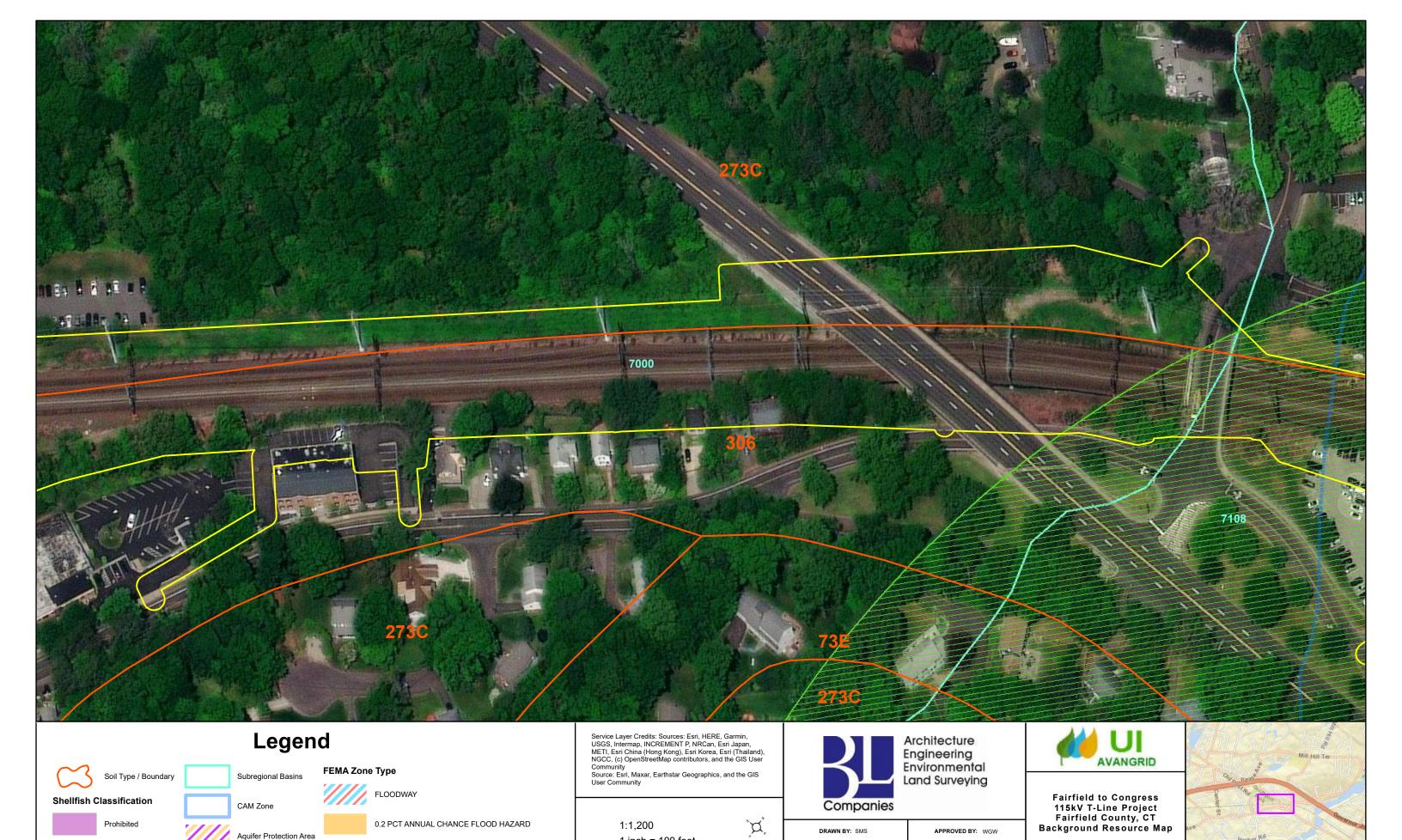
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

PRJ NUM: 2102261



APPENDIX B SHEET NUMBER: 4 OF 39



1 inch = 100 feet

1 PCT ANNUAL CHANCE FLOOD HAZARD

Natural Diversity Area

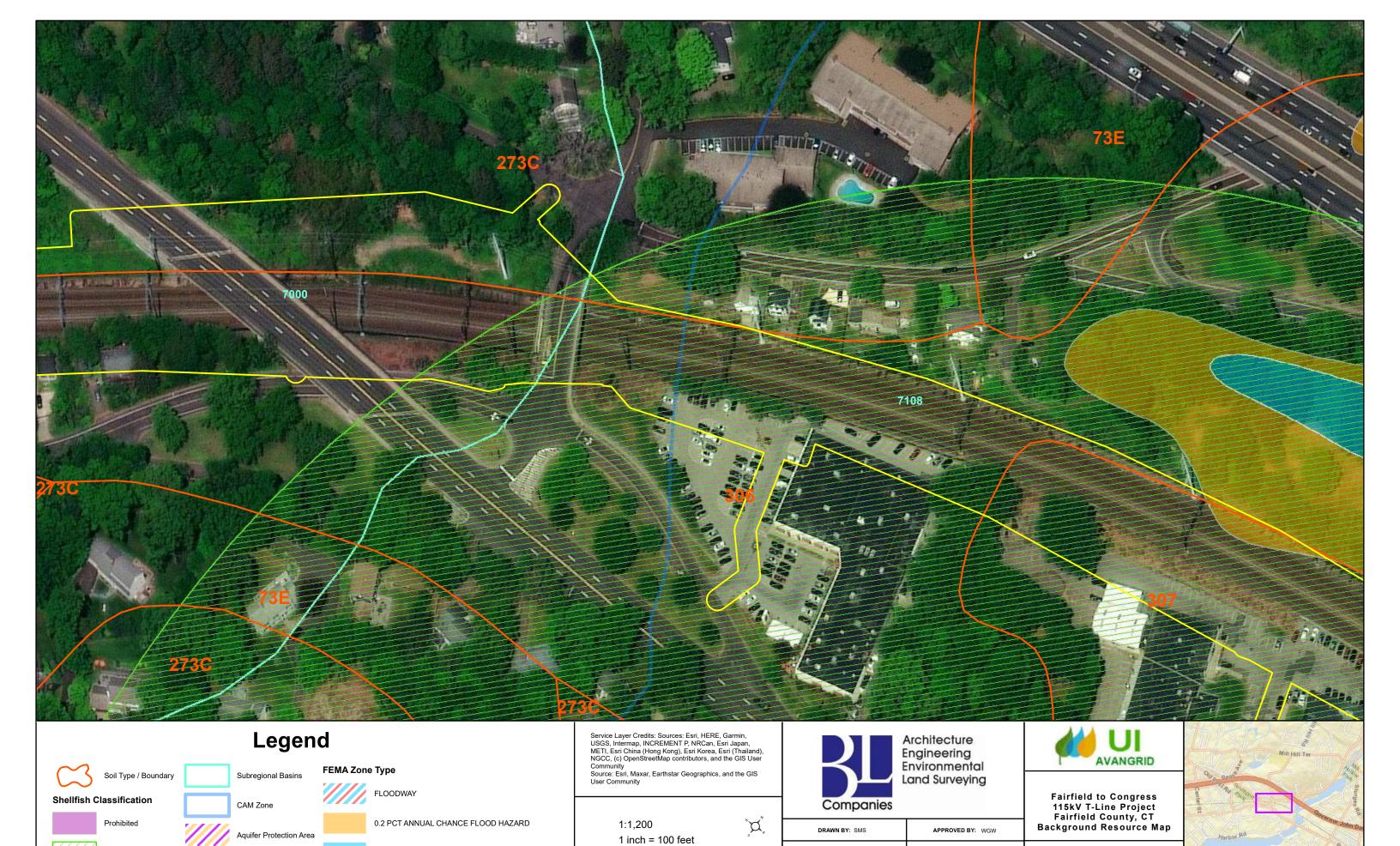
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Natural Diversity Area

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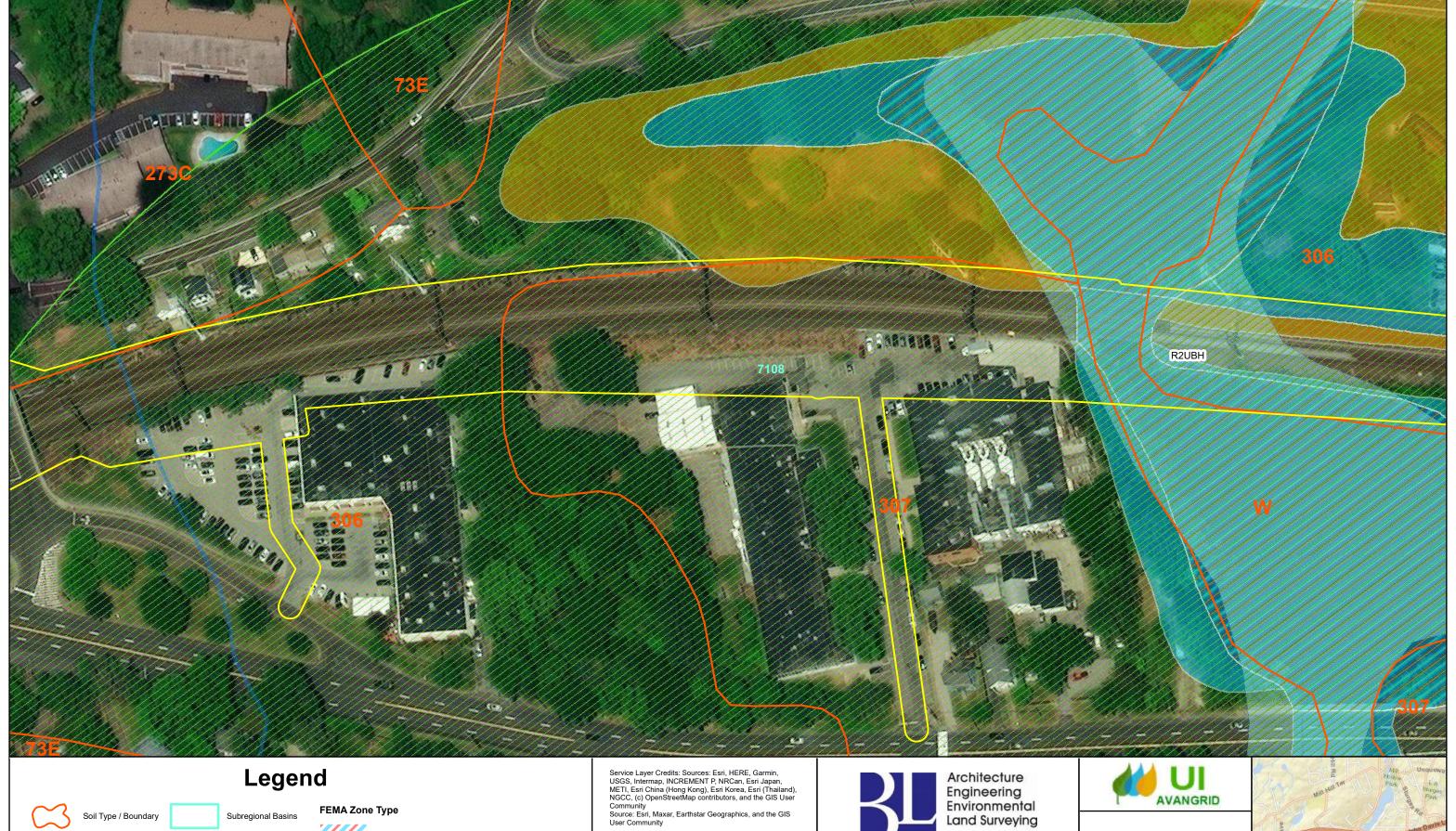
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Shellfish Classification

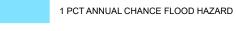
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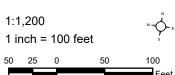
CAM Zone

Aquifer Protection Area NWI Mapped Feature



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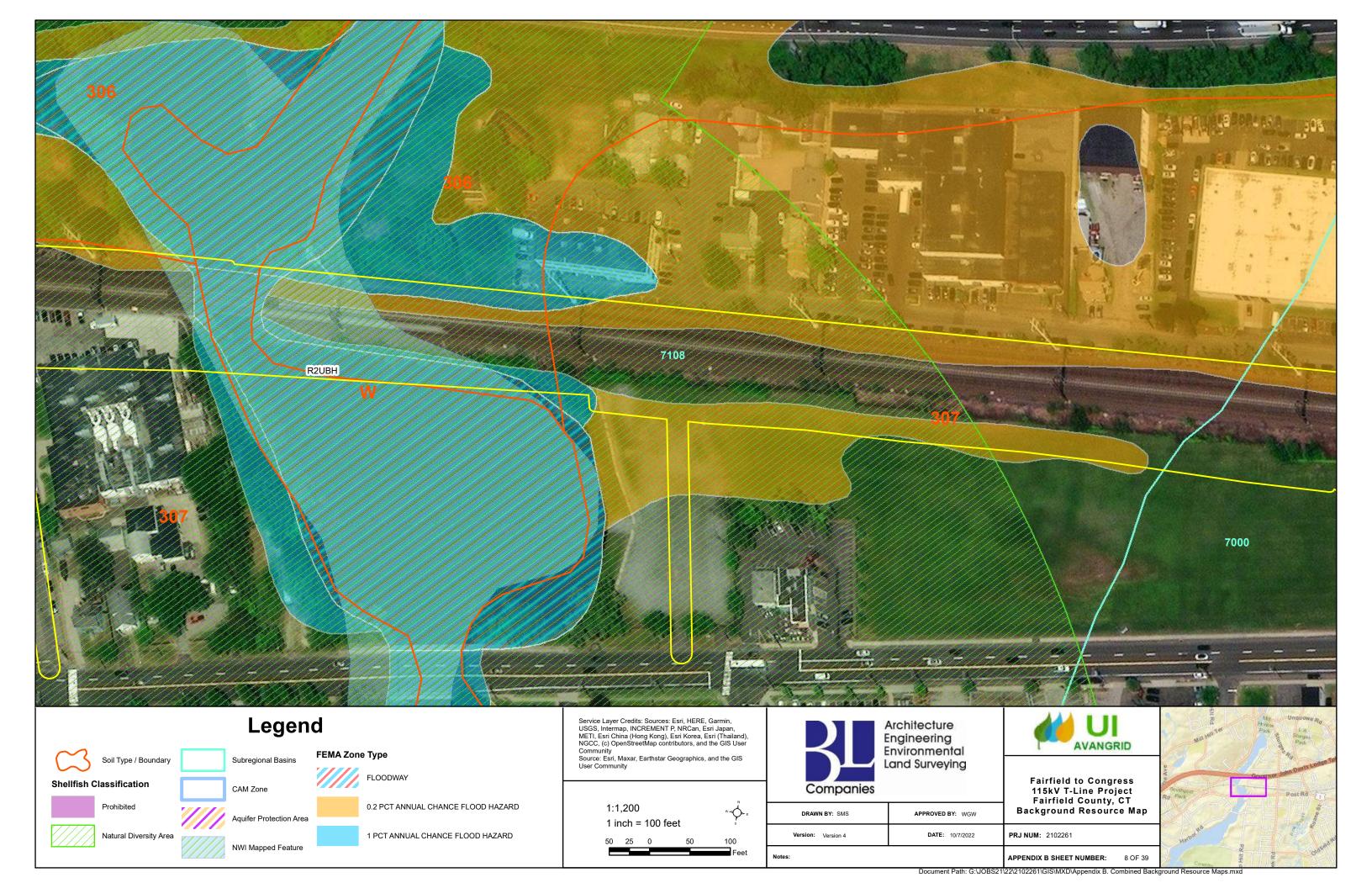


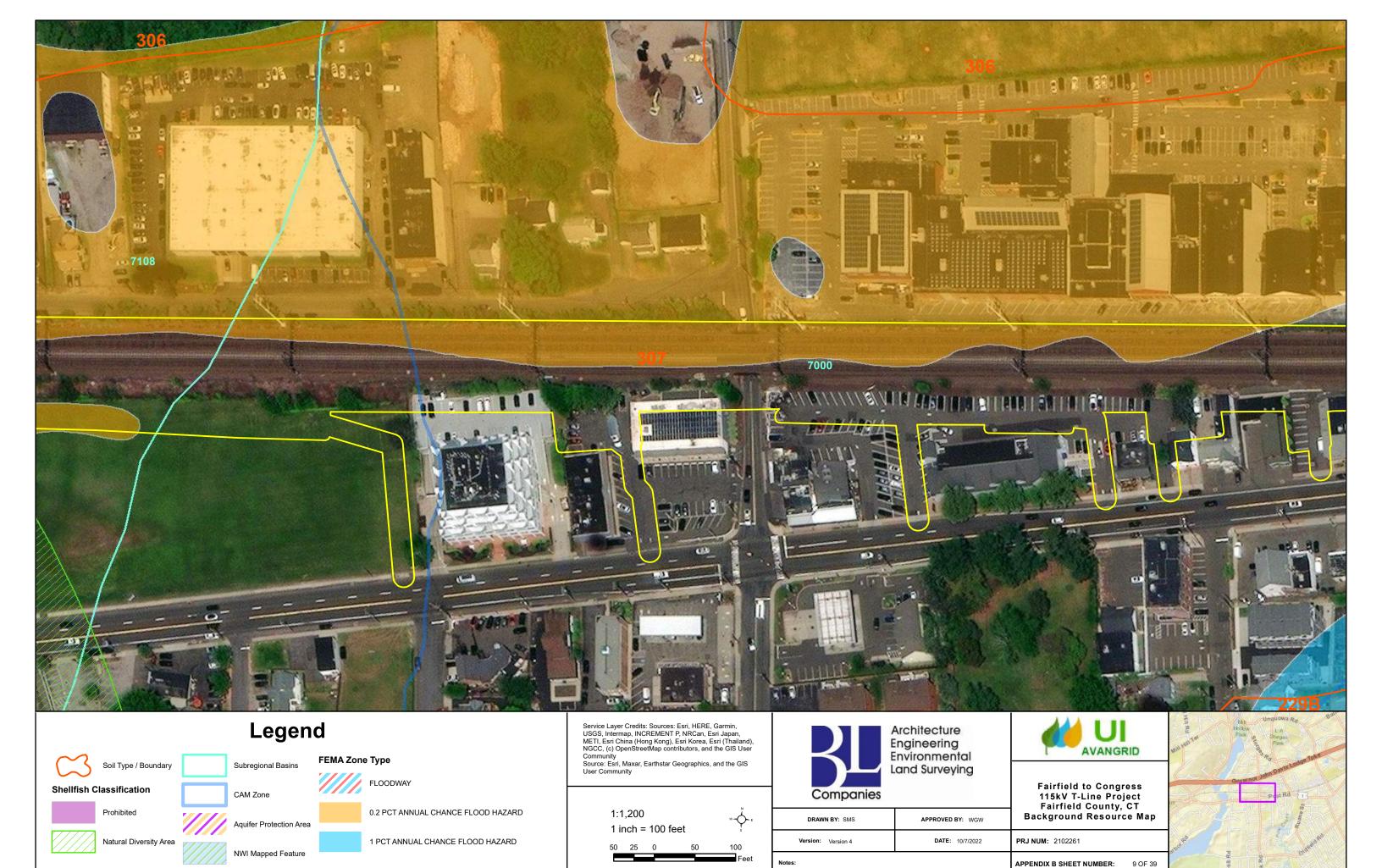
Engineering Environmental Land Surveying

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map











Prohibited

Natural Diversity Area

CAM Zone

Aquifer Protection Area

Subregional Basins

NWI Mapped Feature

FEMA Zone Type

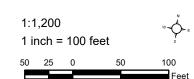


0.2 PCT ANNUAL CHANCE FLOOD HAZARD



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
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Engineering Environmental Land Surveying

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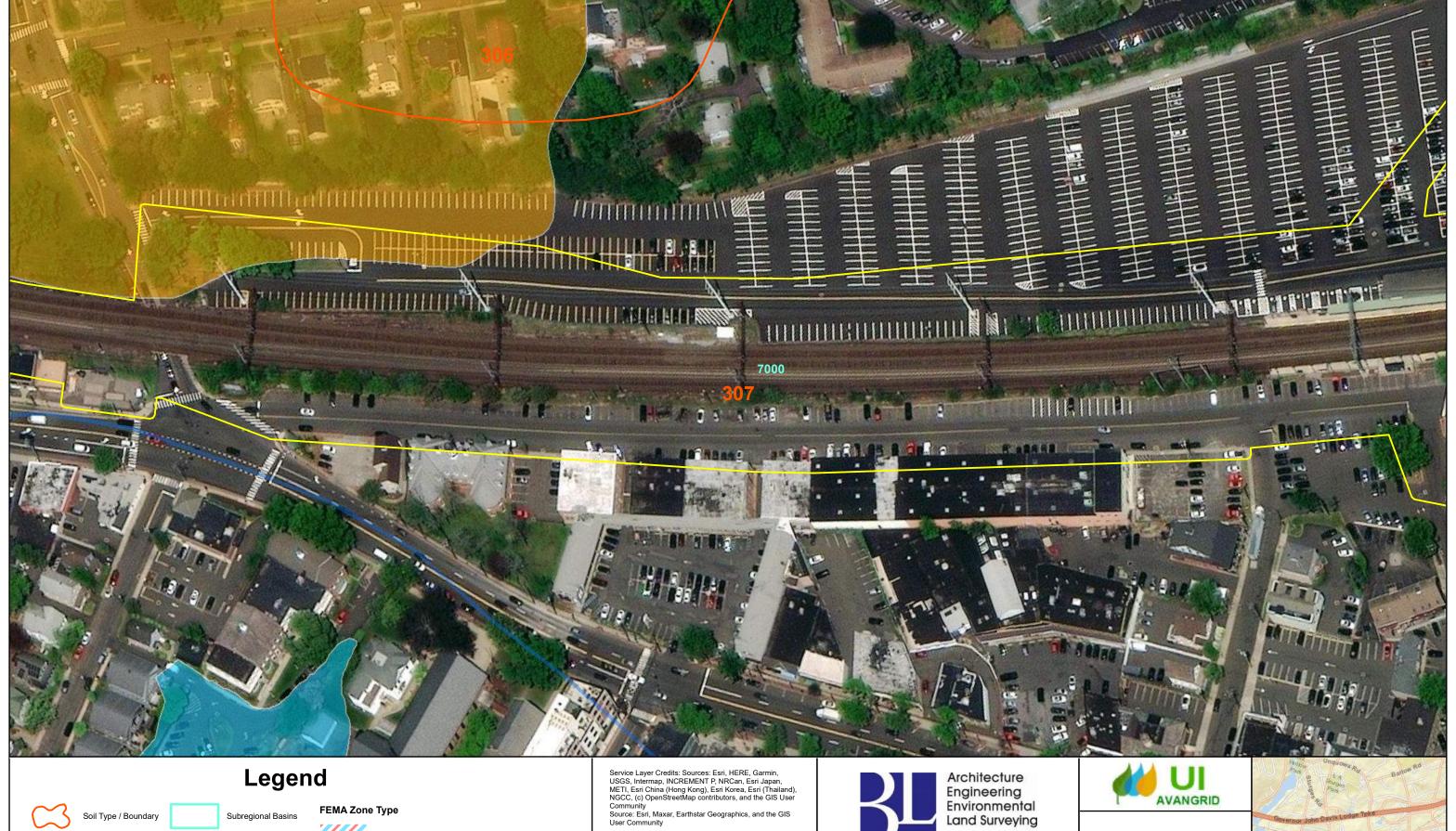


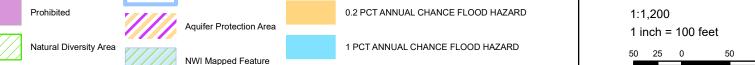
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

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APPENDIX B SHEET NUMBER: 10 OF 39





FLOODWAY

CAM Zone

Shellfish Classification

Companies

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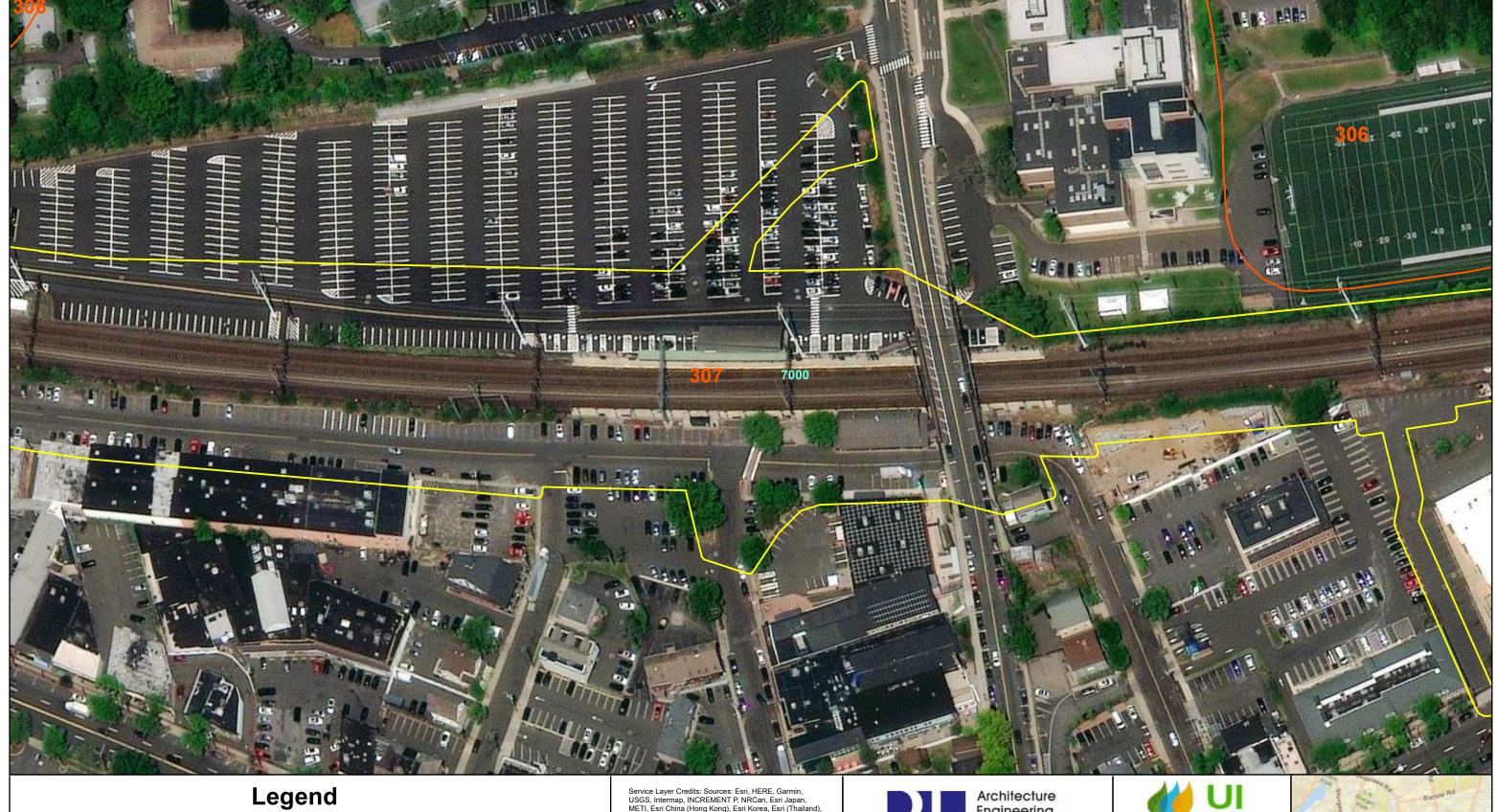


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Version: Version 4	DATE: 10/7/2022	

Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

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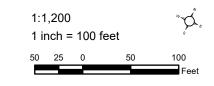




NWI Mapped Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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Legend

Subregional Basins



Prohibited

Natural Diversity Area

NWI Mapped Feature

CAM Zone

Aquifer Protection Area

FEMA Zone Type

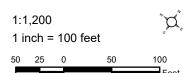


0.2 PCT ANNUAL CHANCE FLOOD HAZARD

1 PCT ANNUAL CHANCE FLOOD HAZARD

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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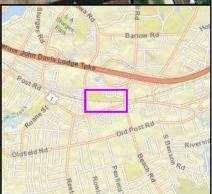
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

DATE: 10/7/2022 PRJ NUM: 2102261



APPENDIX B SHEET NUMBER: 13 OF 39





Natural Diversity Area

CAM Zone Aquifer Protection Area

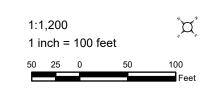
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FLOODWAY

0.2 PCT ANNUAL CHANCE FLOOD HAZARD

1 PCT ANNUAL CHANCE FLOOD HAZARD





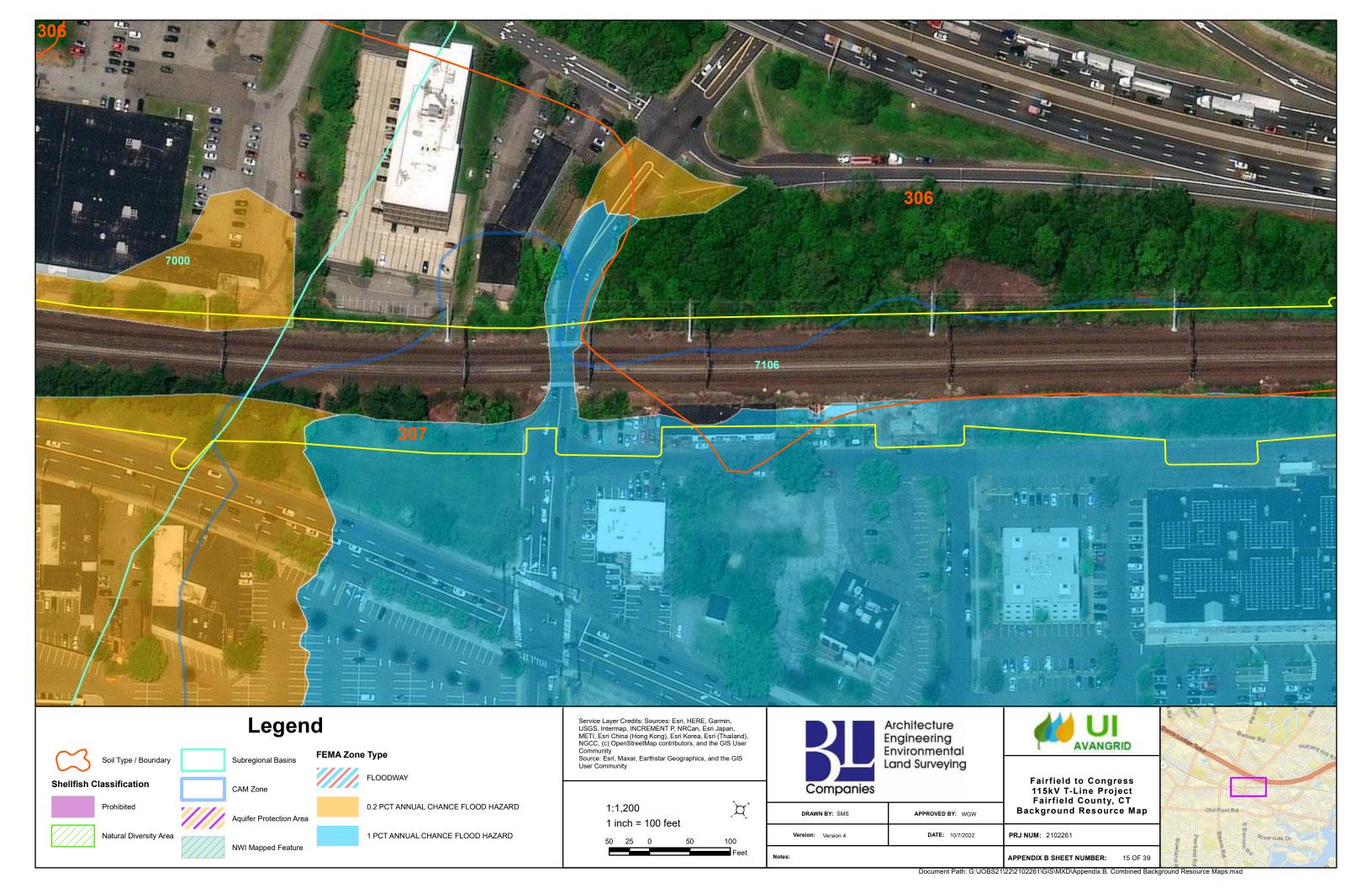
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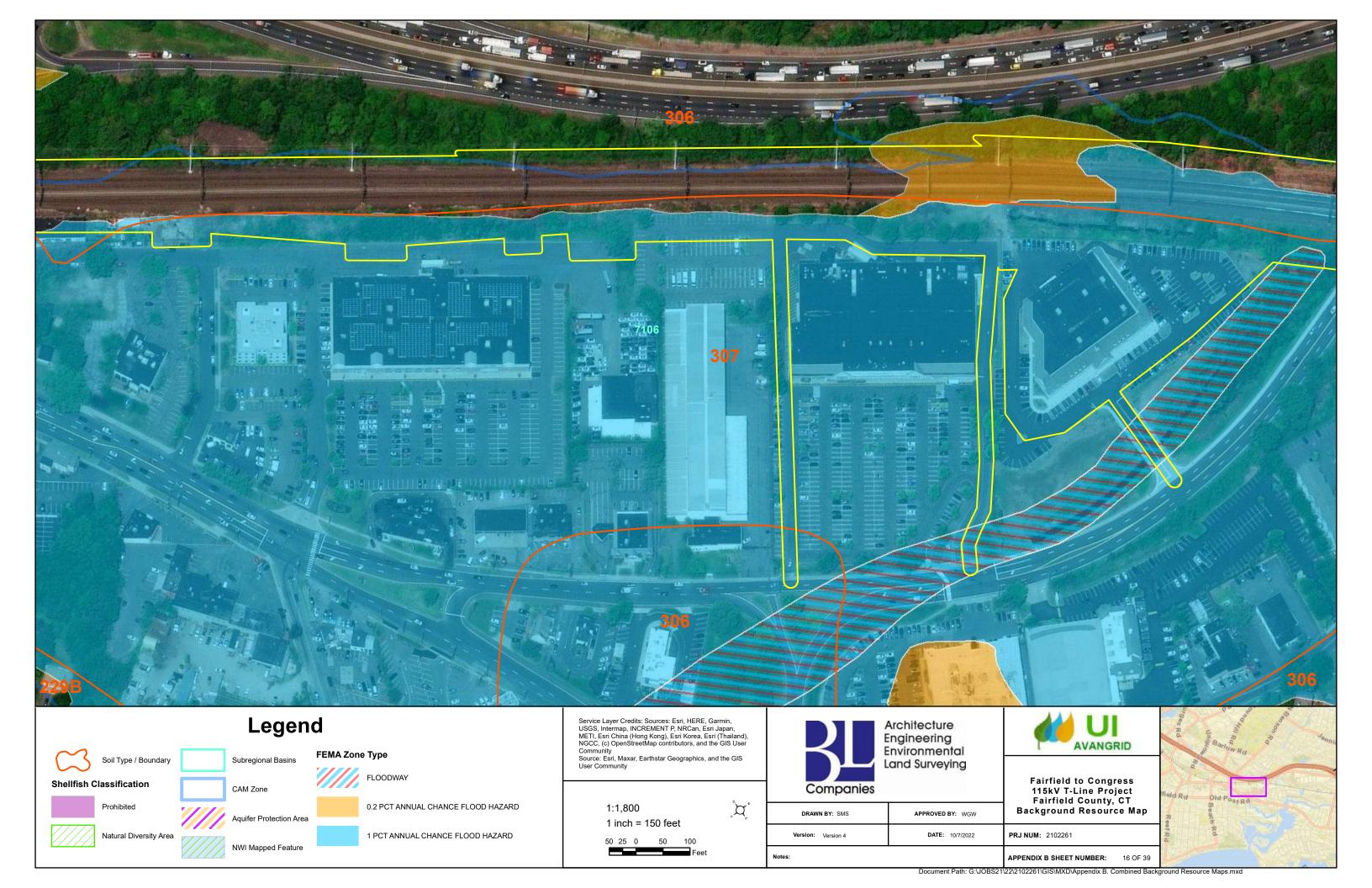
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

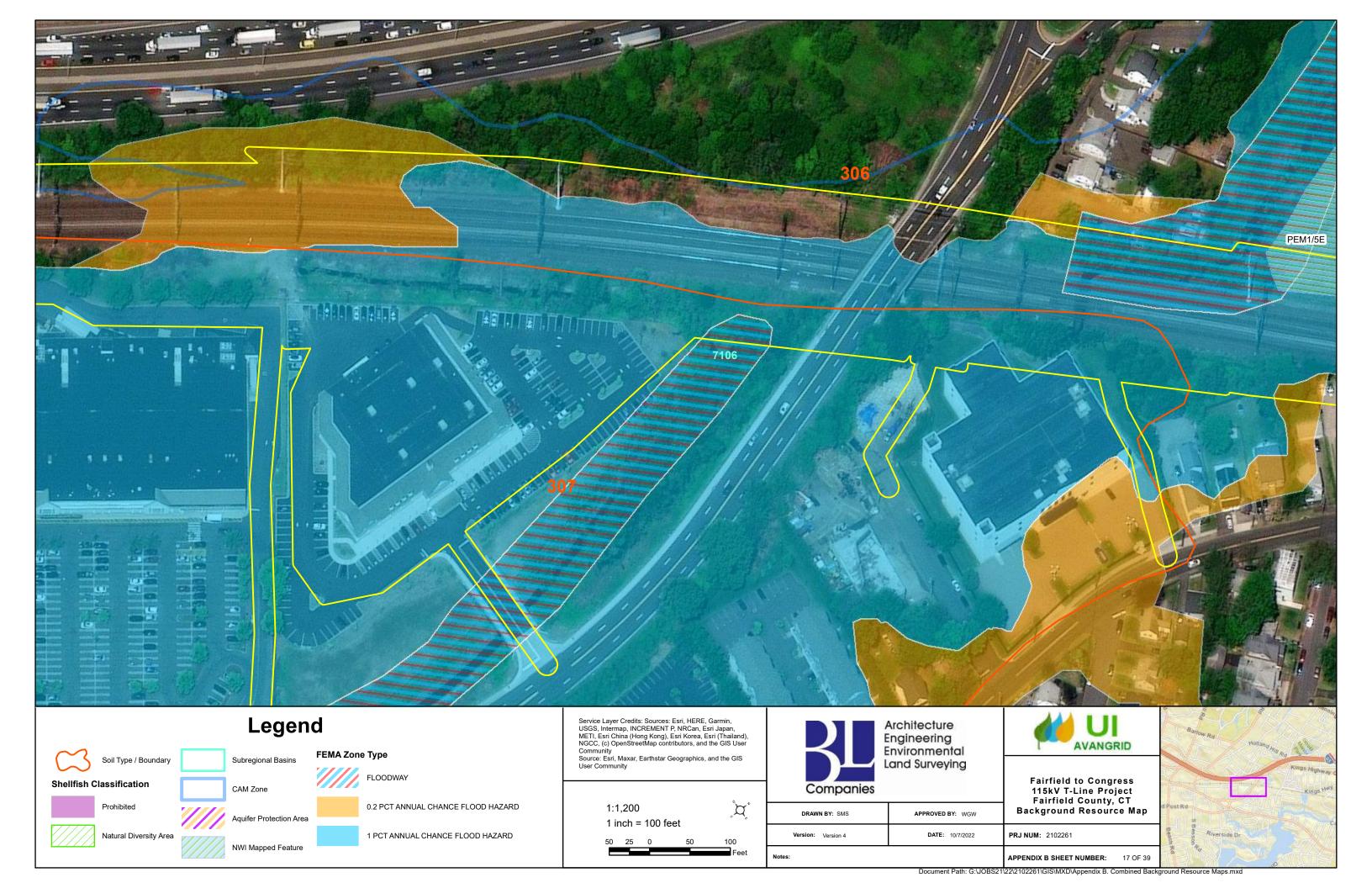
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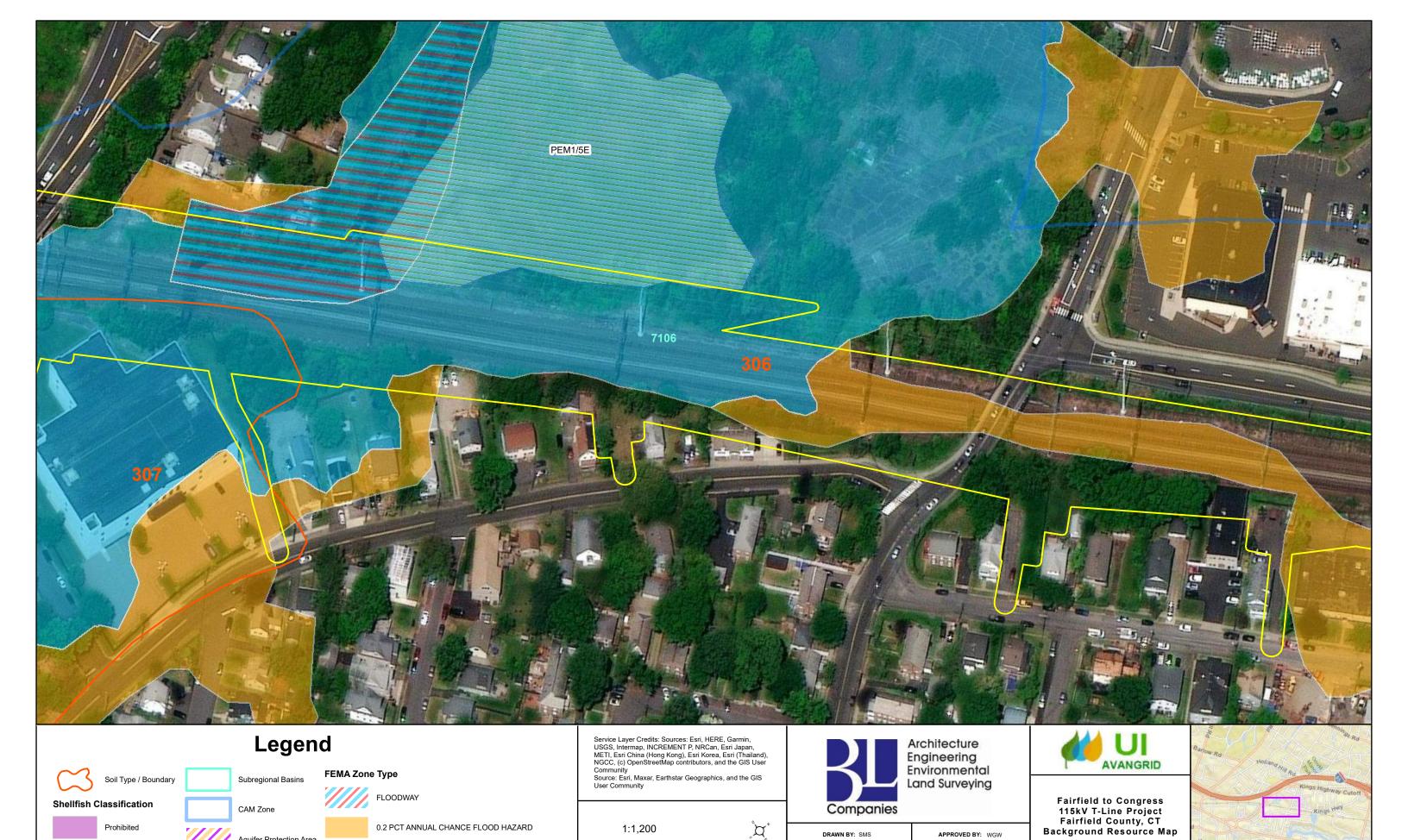


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1 inch = 100 feet

Aquifer Protection Area

NWI Mapped Feature

1 PCT ANNUAL CHANCE FLOOD HAZARD

Natural Diversity Area

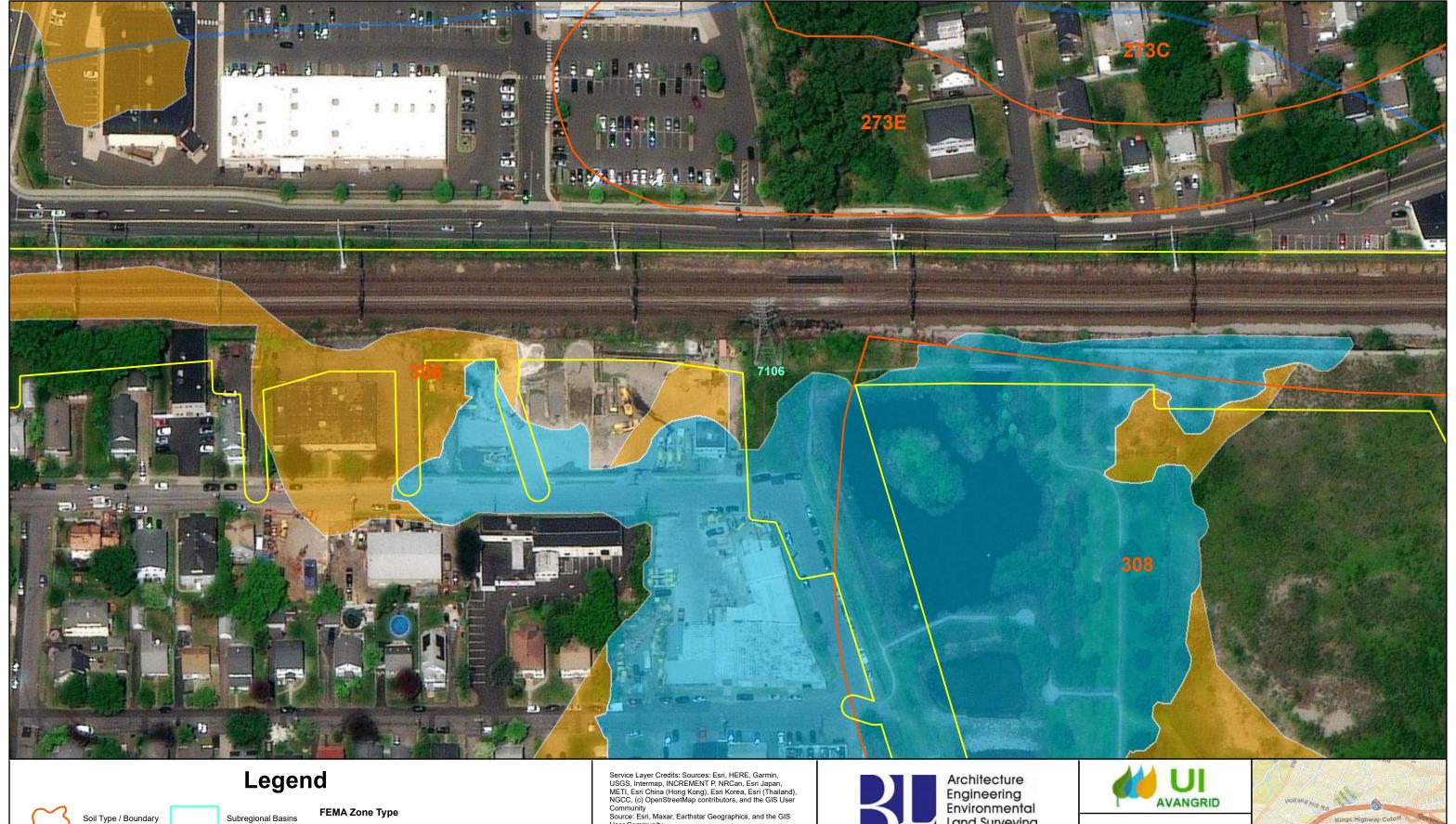
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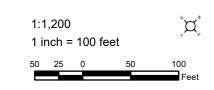
Natural Diversity Area

CAM Zone

Aquifer Protection Area NWI Mapped Feature

FLOODWAY 0.2 PCT ANNUAL CHANCE FLOOD HAZARD

1 PCT ANNUAL CHANCE FLOOD HAZARD





Engineering Environmental Land Surveying

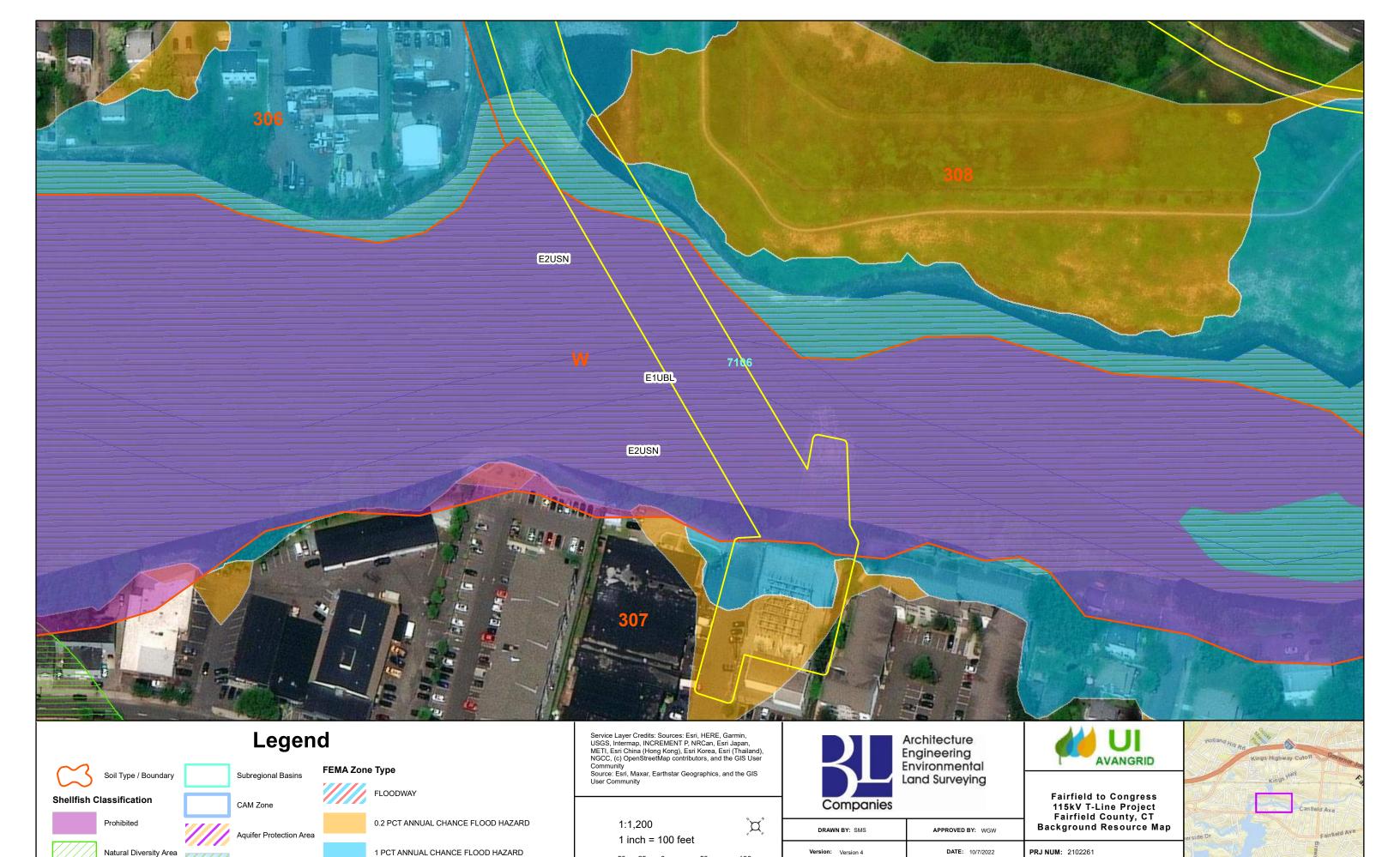
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

DATE: 10/7/2022 PRJ NUM: 2102261



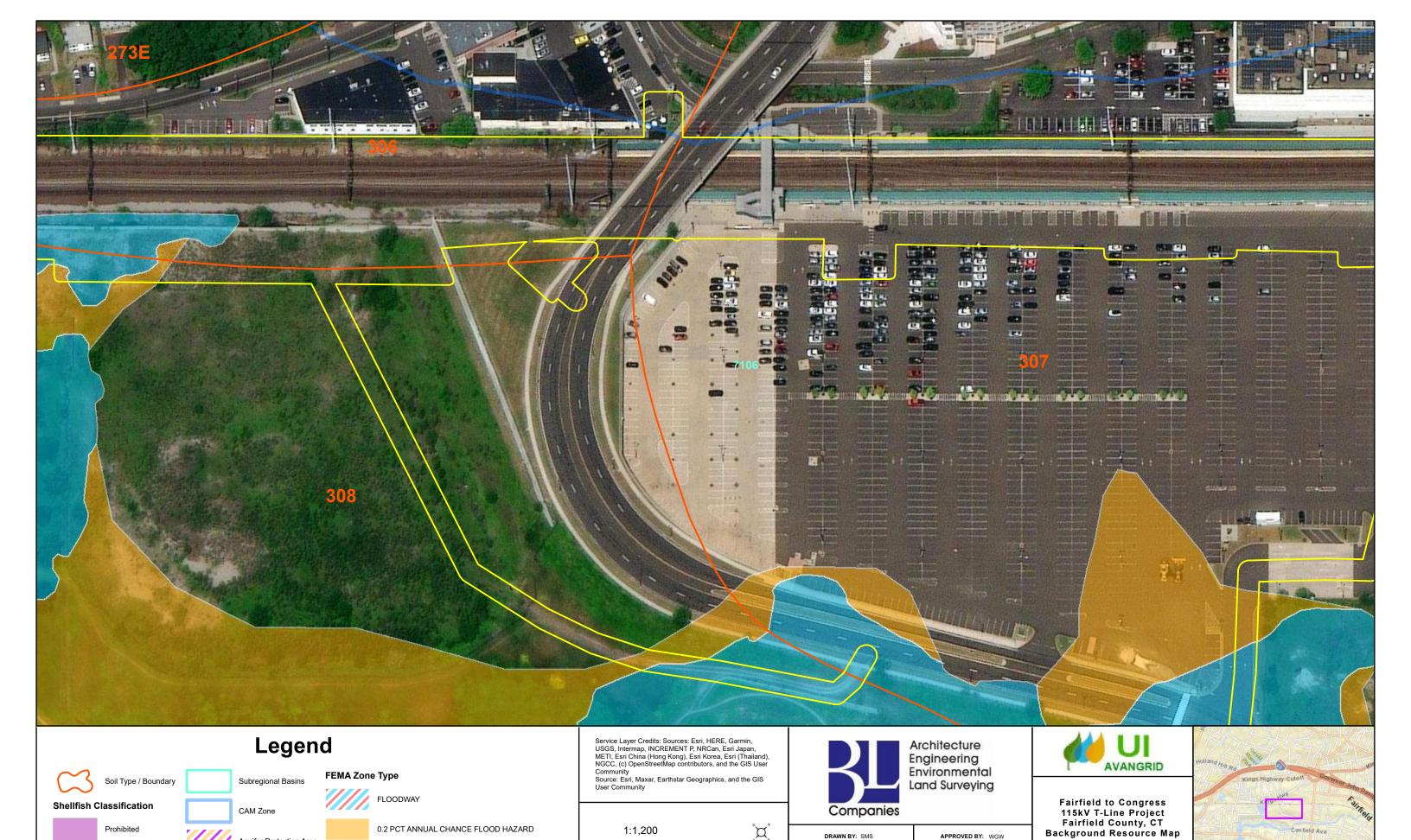
APPENDIX B SHEET NUMBER: 19 OF 39



50 25 0

NWI Mapped Feature

APPENDIX B SHEET NUMBER: 20 OF 39



1 inch = 100 feet

50 25 0

Aquifer Protection Area

NWI Mapped Feature

1 PCT ANNUAL CHANCE FLOOD HAZARD

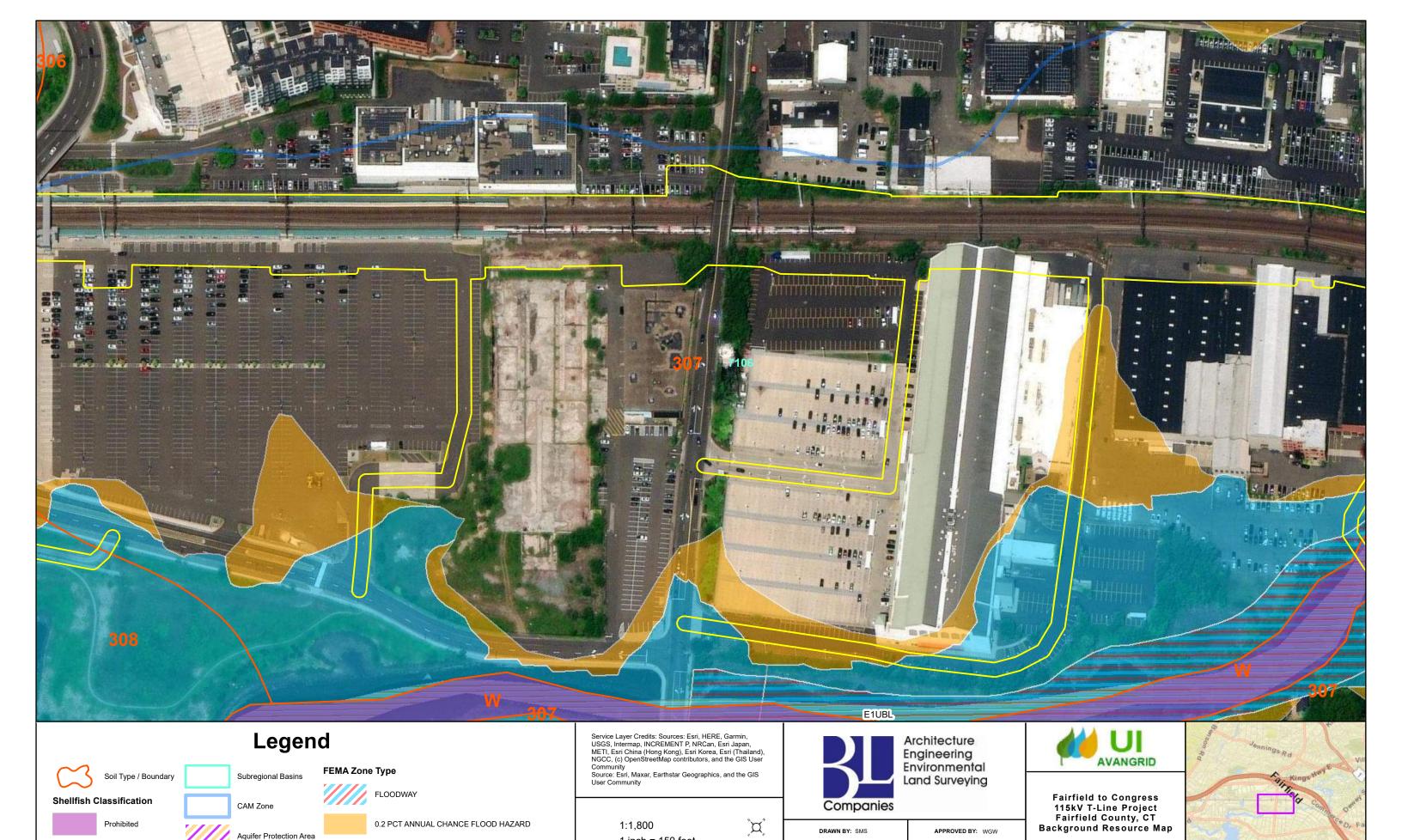
Natural Diversity Area

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PRJ NUM: 2102261

DATE: 10/7/2022

Version: Version 4



1 inch = 150 feet

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1 PCT ANNUAL CHANCE FLOOD HAZARD

Natural Diversity Area

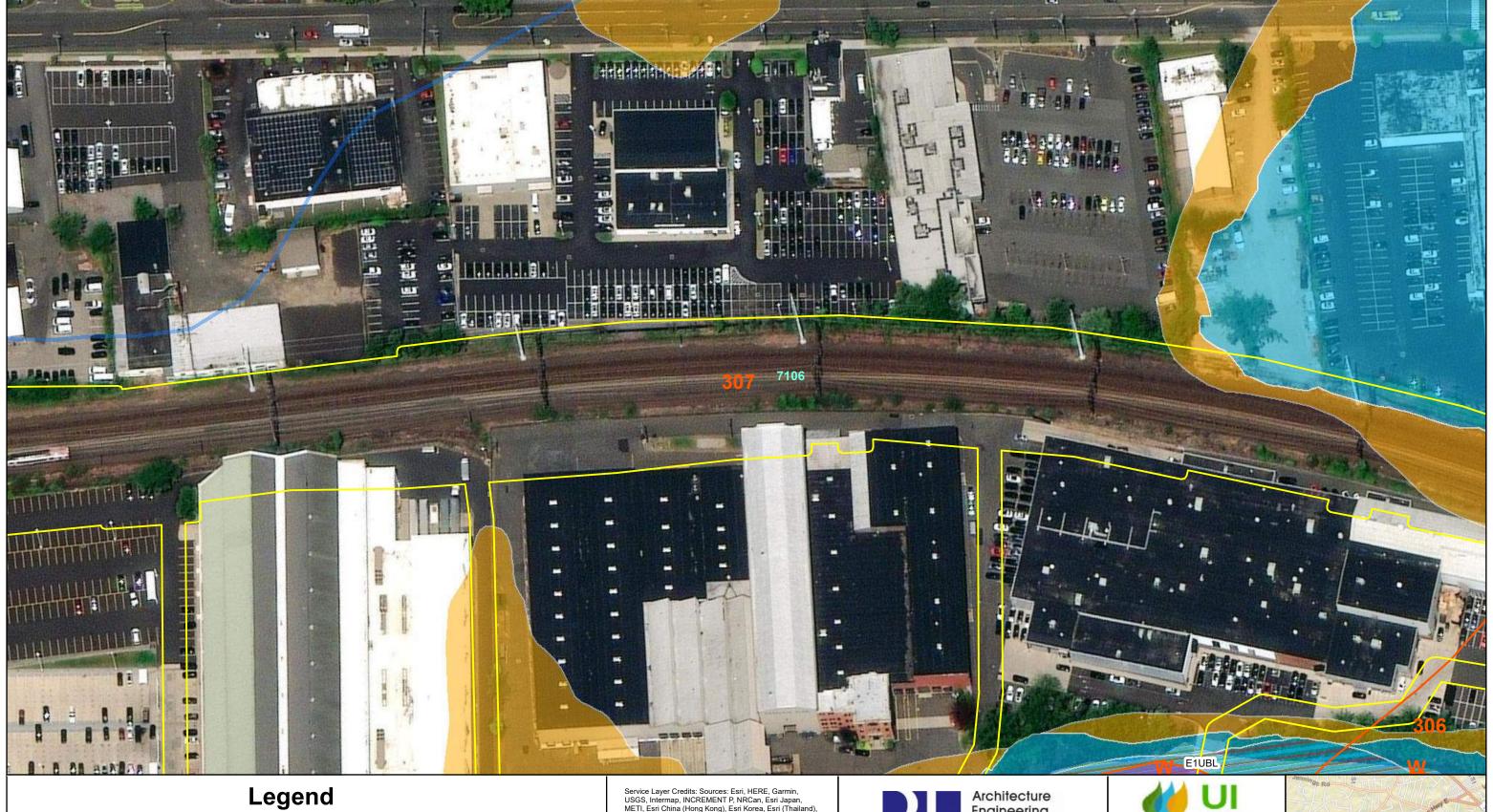
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Version: Version 4





Natural Diversity Area

Subregional Basins CAM Zone

Aquifer Protection Area

NWI Mapped Feature

FEMA Zone Type

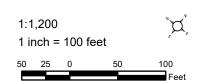
FLOODWAY

0.2 PCT ANNUAL CHANCE FLOOD HAZARD

1 PCT ANNUAL CHANCE FLOOD HAZARD

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS





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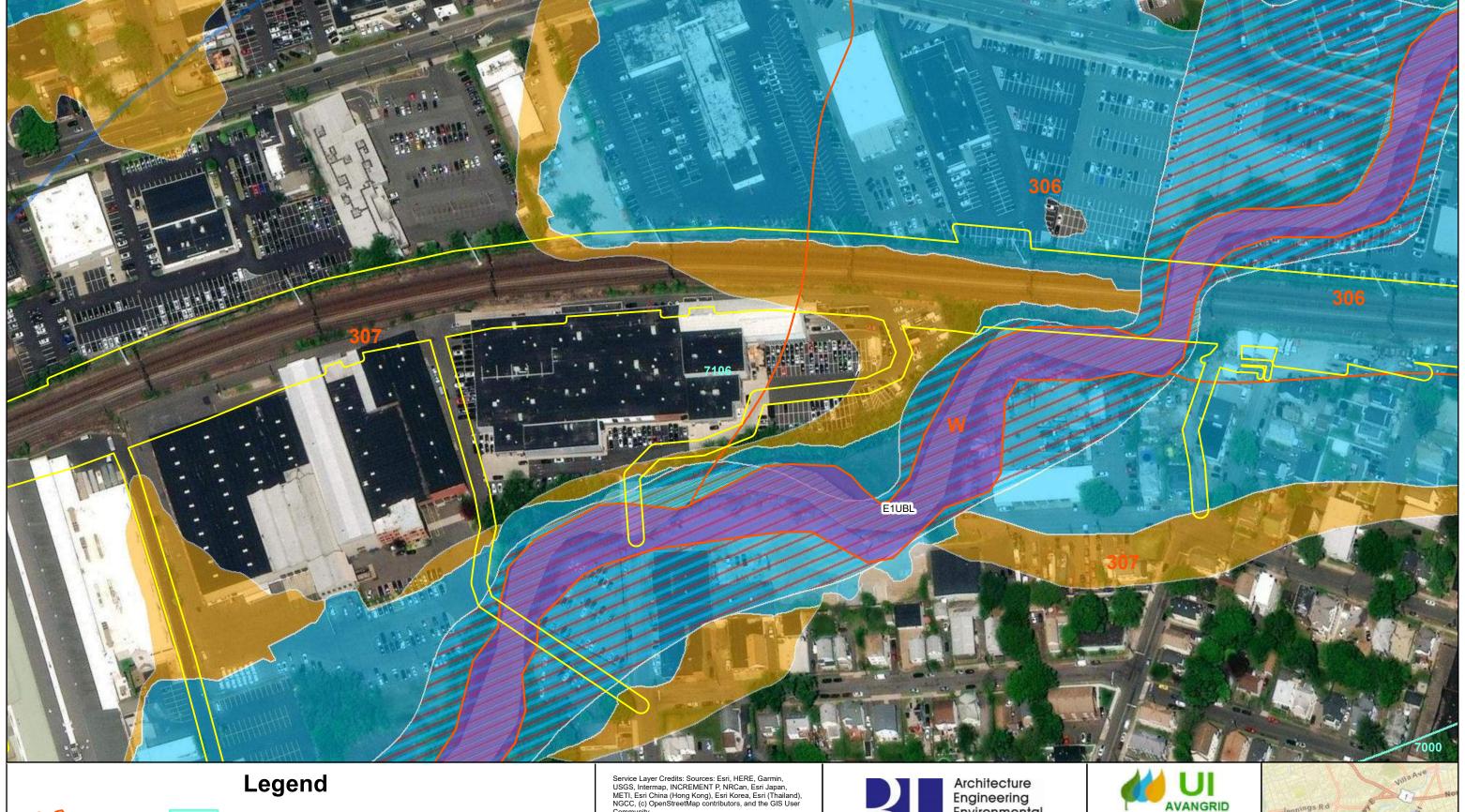
APPROVED BY: WGW

DATE: 10/7/2022

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map







Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
User Community

1:1,800 " \Q_" 1 inch = 150 feet 50 25 0 50 100



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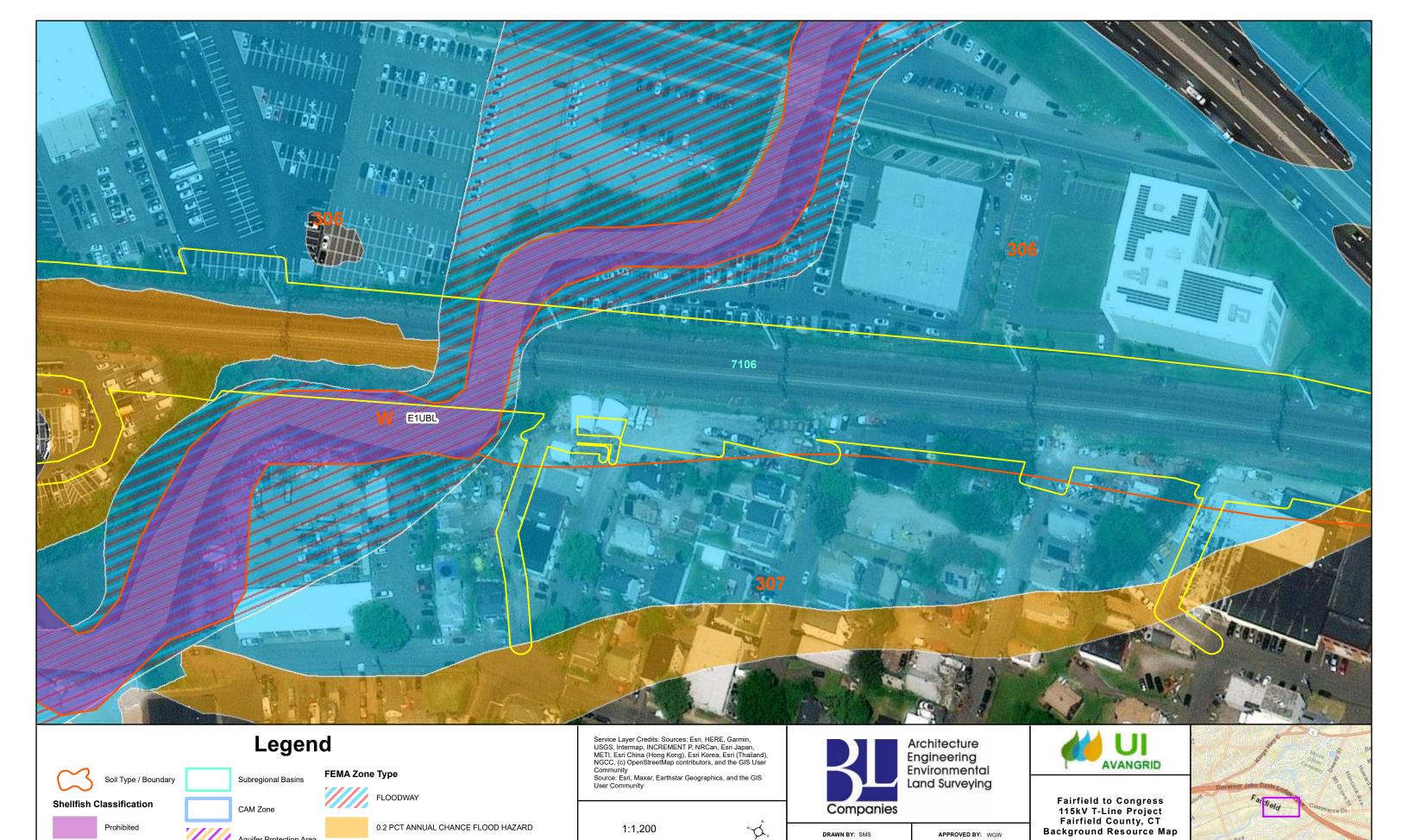
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

PRJ NUM: 2102261



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APPENDIX B SHEET NUMBER: 24 OF 39



1 inch = 100 feet

50 25 0

Aquifer Protection Area

NWI Mapped Feature

1 PCT ANNUAL CHANCE FLOOD HAZARD

Natural Diversity Area



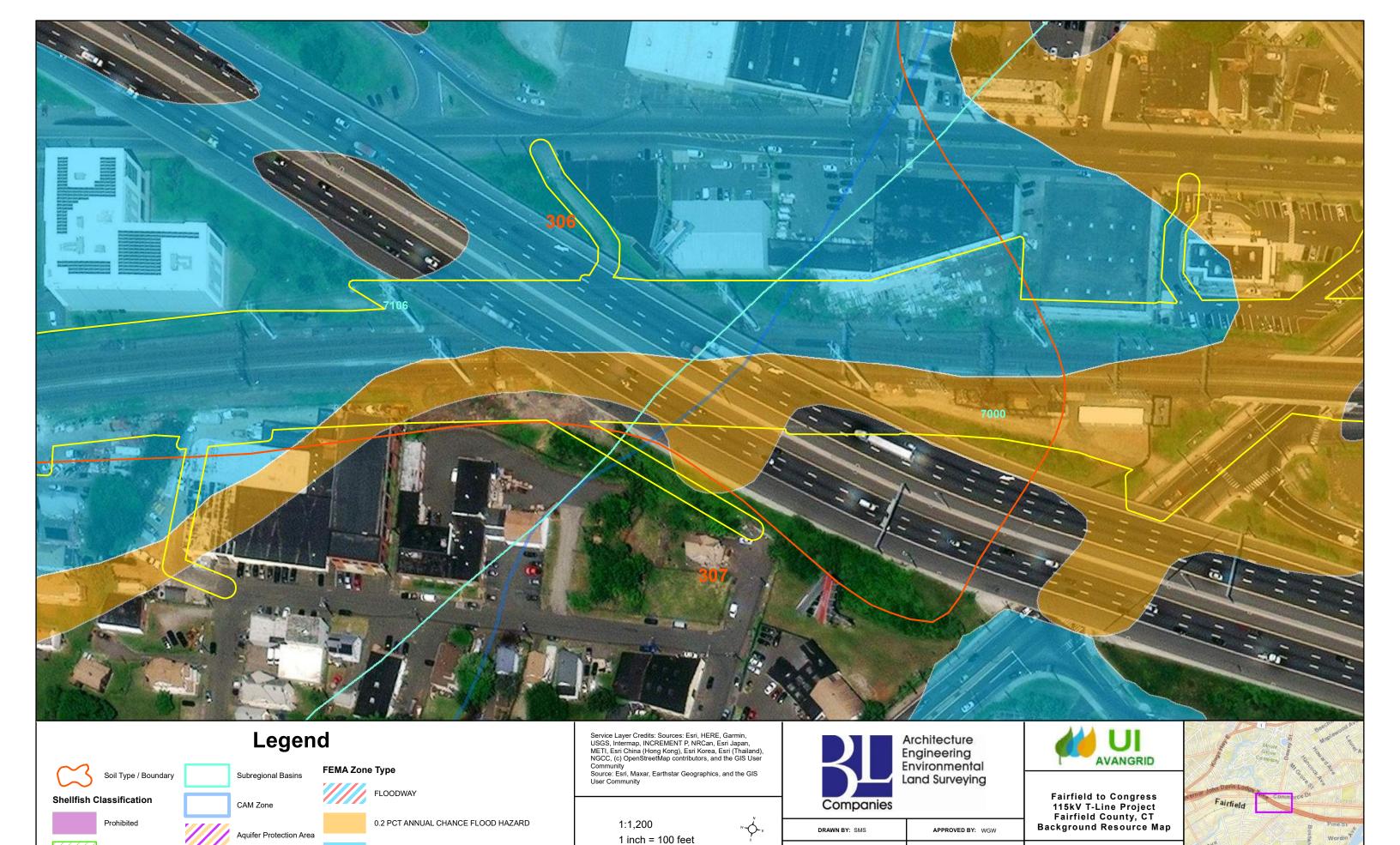
APPENDIX B SHEET NUMBER: 25 OF 39

PRJ NUM: 2102261

APPROVED BY: WGW

DATE: 10/7/2022

DRAWN BY: SMS



50 25 0

Natural Diversity Area

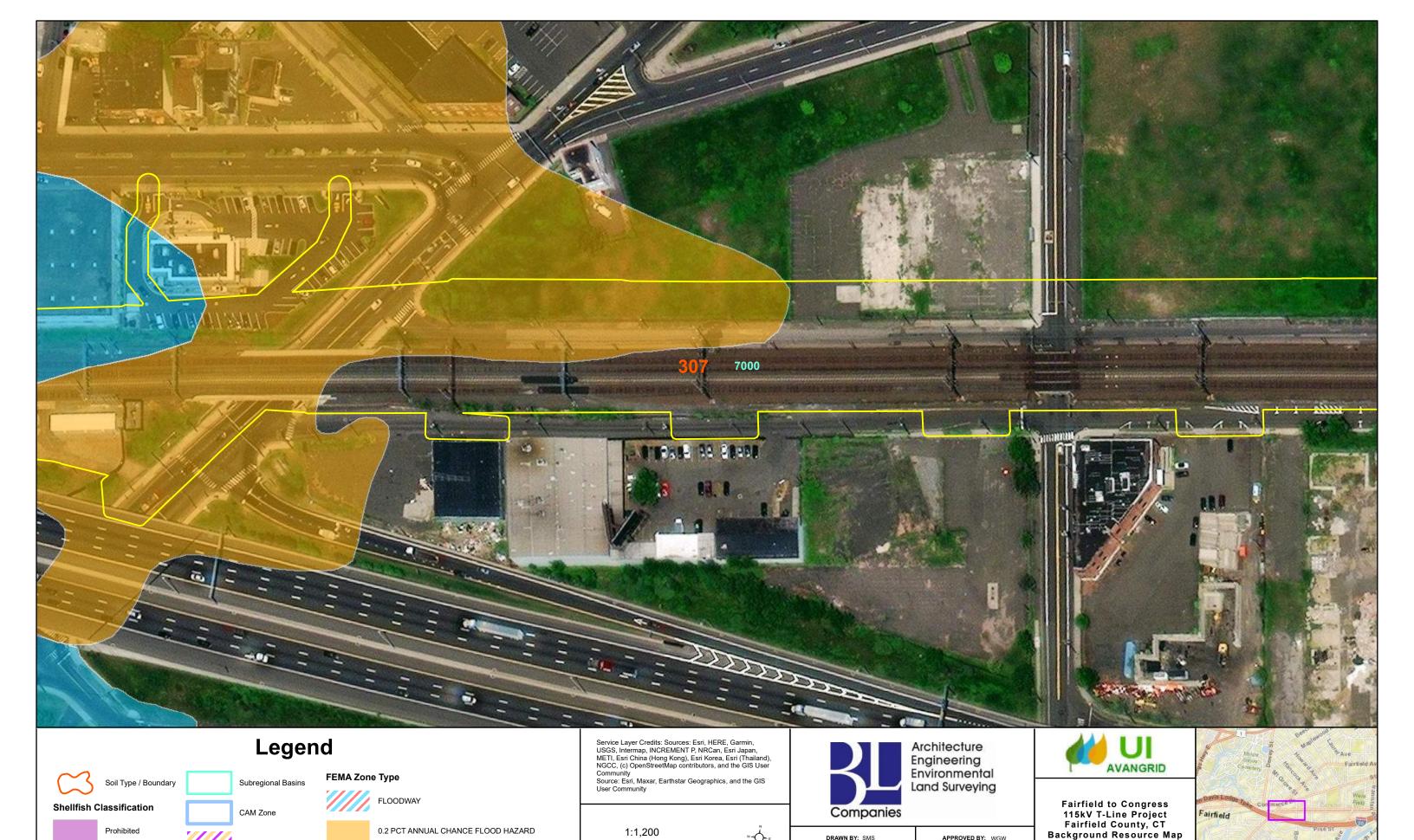
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1 PCT ANNUAL CHANCE FLOOD HAZARD

APPENDIX B SHEET NUMBER: 26 OF 39

PRJ NUM: 2102261

DATE: 10/7/2022



1 inch = 100 feet

50 25 0

Aquifer Protection Area

NWI Mapped Feature

1 PCT ANNUAL CHANCE FLOOD HAZARD

Natural Diversity Area

APPENDIX B SHEET NUMBER: 27 OF 39

PRJ NUM: 2102261

APPROVED BY: WGW

DATE: 10/7/2022

DRAWN BY: SMS





Prohibited

Natural Diversity Area

CAM Zone

Subregional Basins

NWI Mapped Feature

Aquifer Protection Area

FEMA Zone Type

FLOODWAY

0.2 PCT ANNUAL CHANCE FLOOD HAZARD

1 PCT ANNUAL CHANCE FLOOD HAZARD

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS

1:1,800 1 inch = 150 feet 50 25 0 50 100





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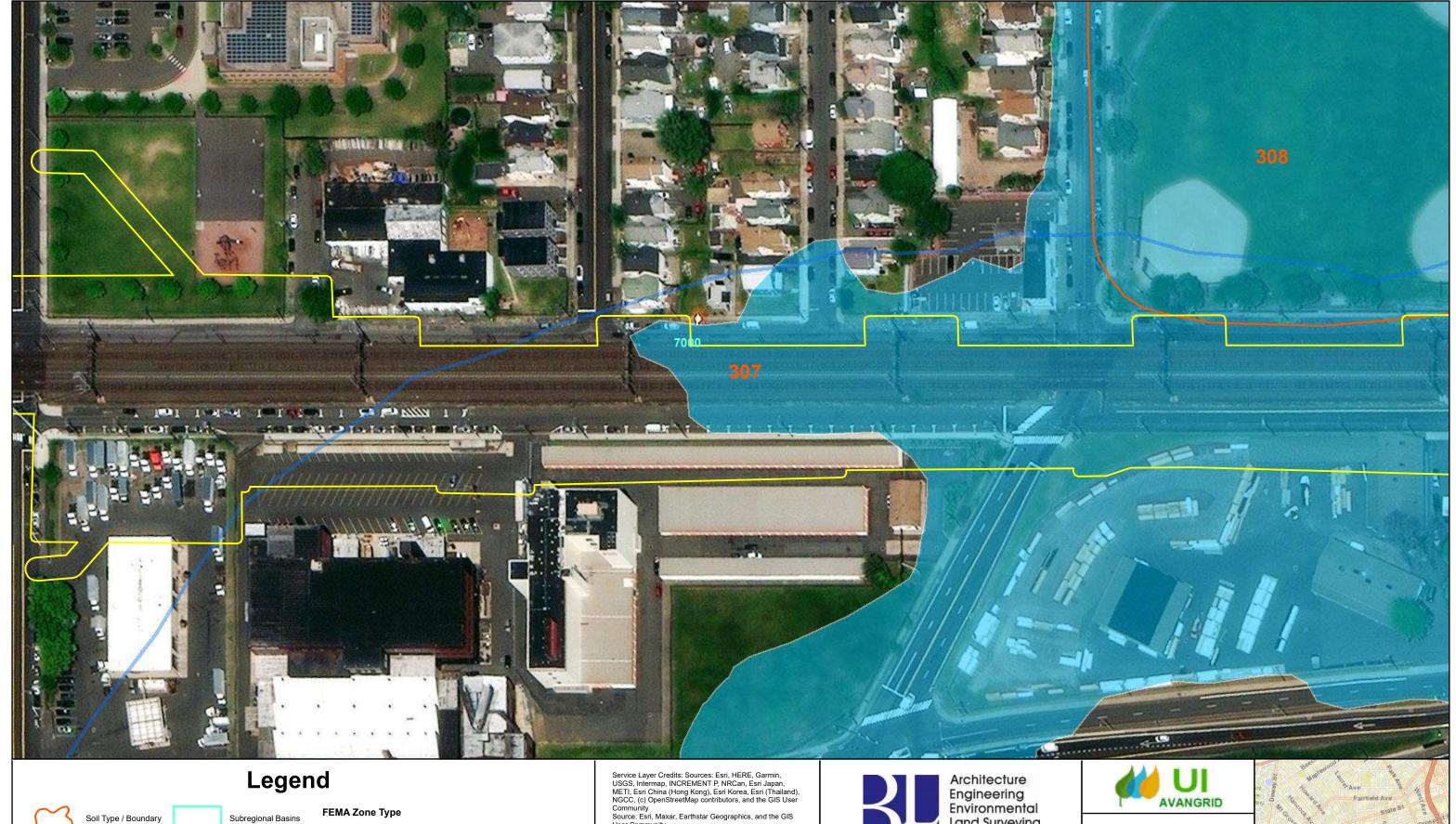
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APPENDIX B SHEET NUMBER: 28 OF 39

PRJ NUM: 2102261



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Natural Diversity Area

NWI Mapped Feature

Aquifer Protection Area

CAM Zone

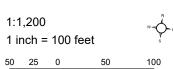
FLOODWAY



0.2 PCT ANNUAL CHANCE FLOOD HAZARD



1 PCT ANNUAL CHANCE FLOOD HAZARD





Environmental Land Surveying

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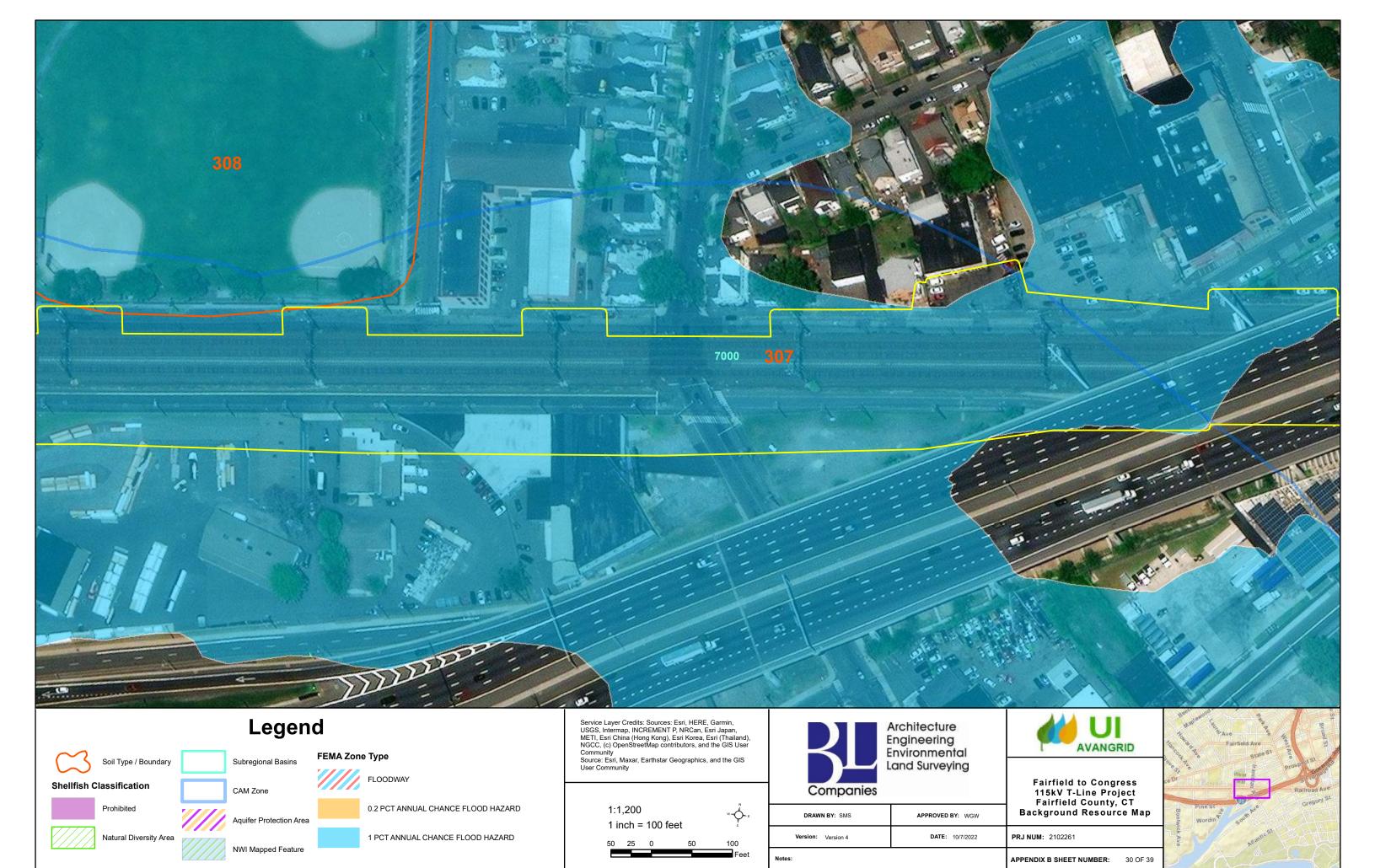
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

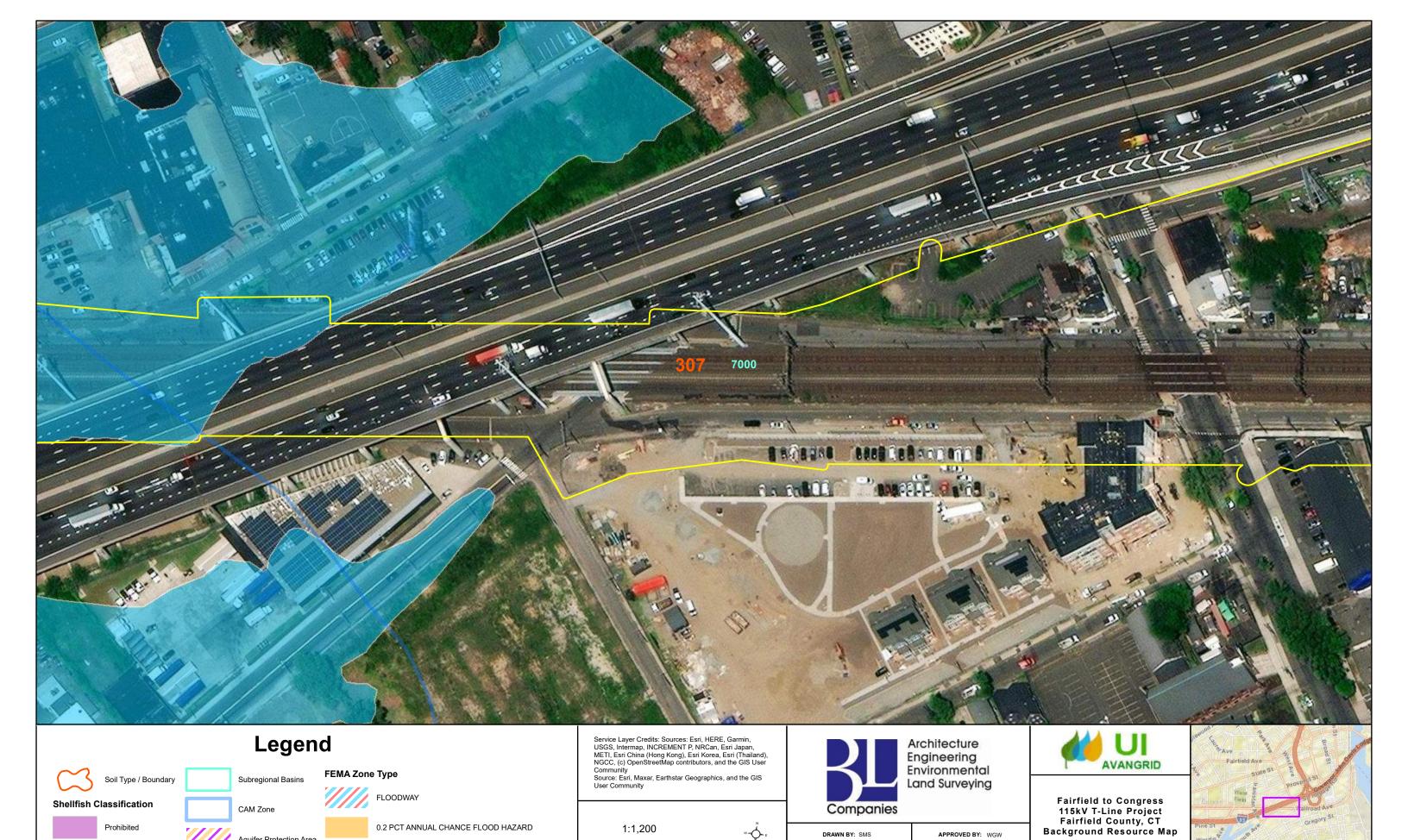
PRJ NUM: 2102261

APPENDIX B SHEET NUMBER: 29 OF 39



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1 inch = 100 feet

50 25

Aquifer Protection Area

NWI Mapped Feature

1 PCT ANNUAL CHANCE FLOOD HAZARD

Natural Diversity Area

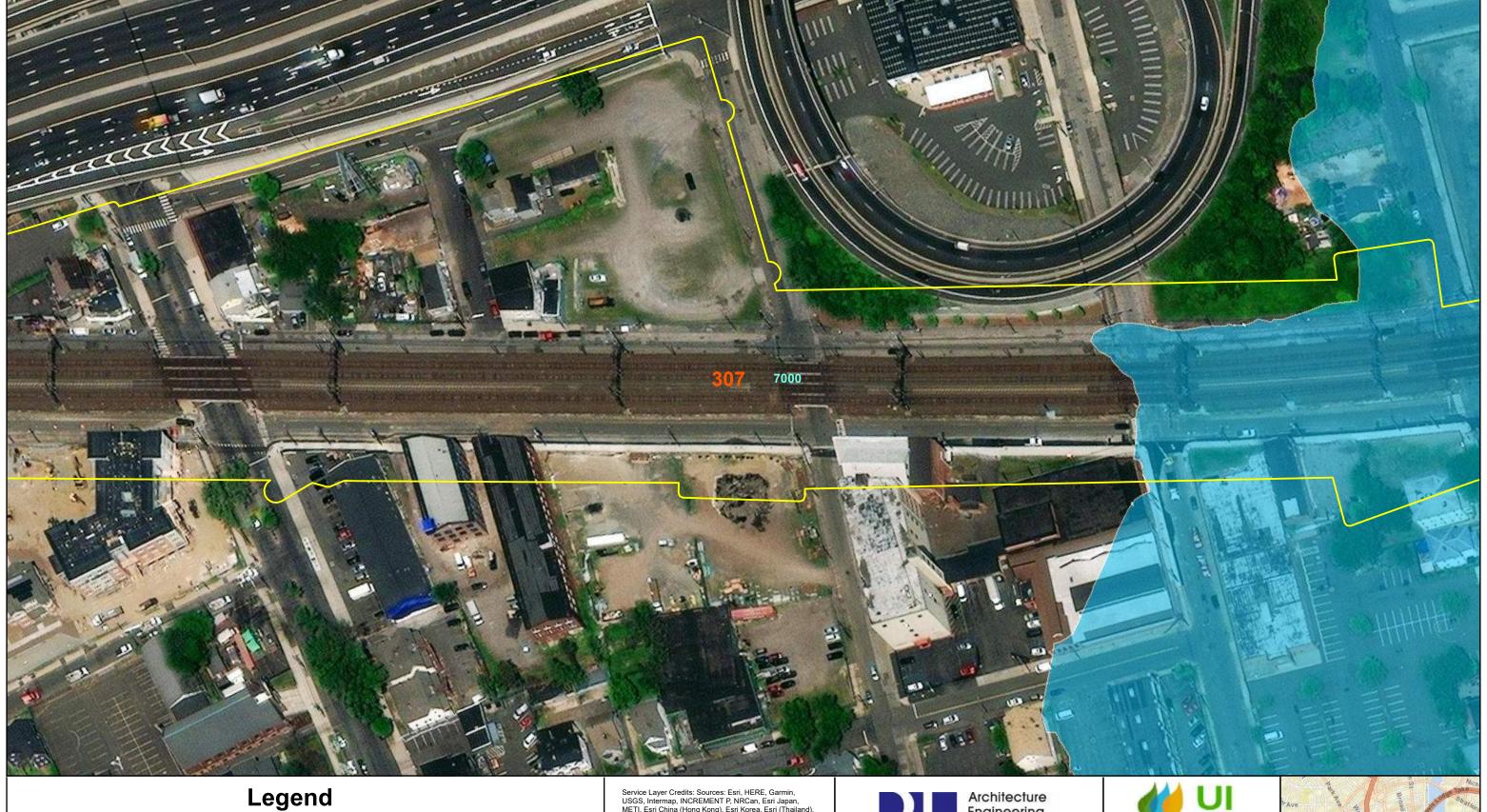
APPENDIX B SHEET NUMBER: 31 OF 39

PRJ NUM: 2102261

APPROVED BY: WGW

DATE: 10/7/2022

DRAWN BY: SMS





Natural Diversity Area

Subregional Basins

CAM Zone

Aquifer Protection Area

NWI Mapped Feature

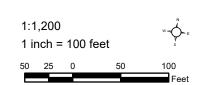
FEMA Zone Type

FLOODWAY 0.2 PCT ANNUAL CHANCE FLOOD HAZARD

1 PCT ANNUAL CHANCE FLOOD HAZARD

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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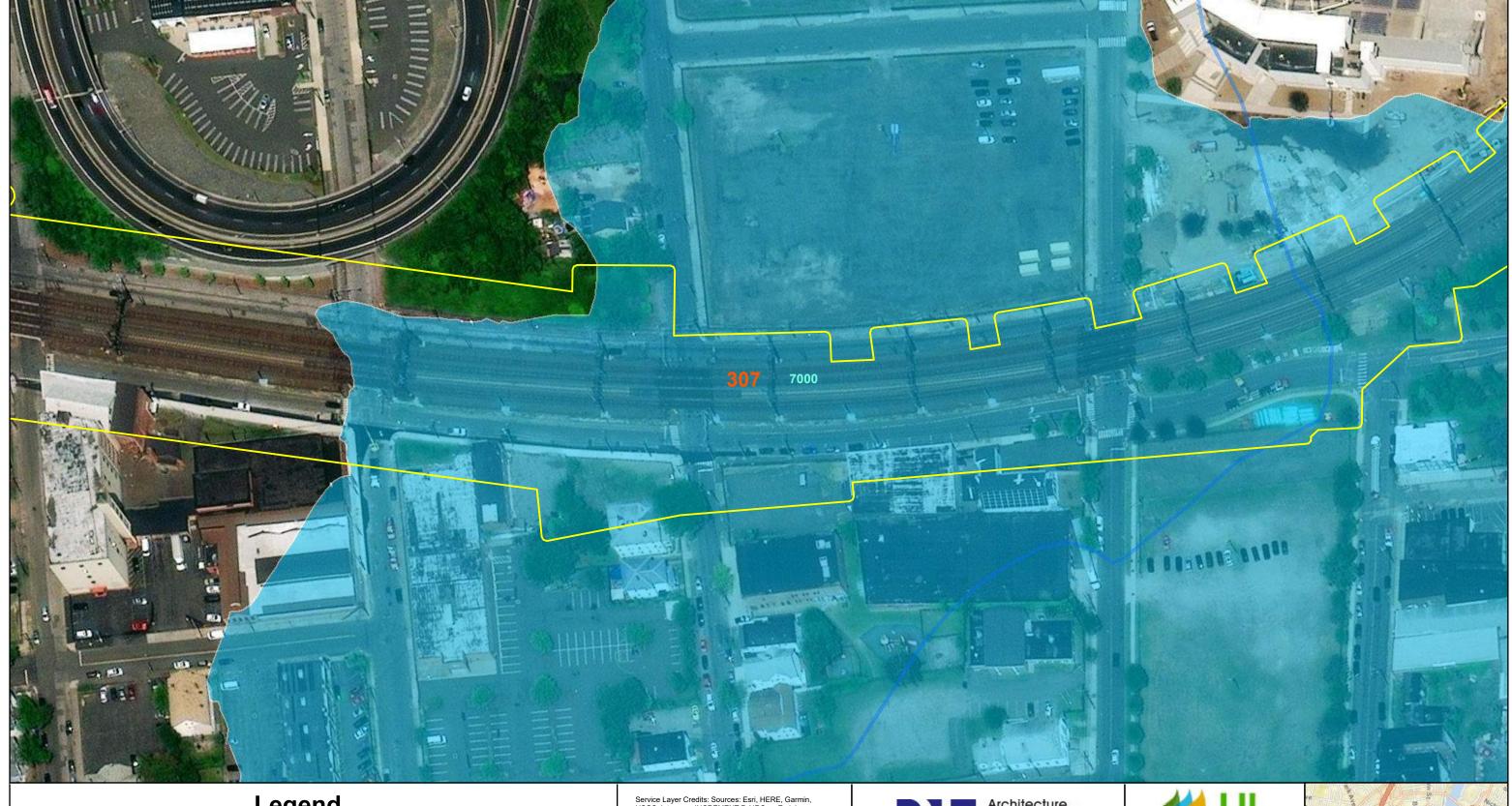


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

PRJ NUM: 2102261

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APPENDIX B SHEET NUMBER: 32 OF 39





Shellfish Classification

Prohibited

Natural Diversity Area

Aquifer Protection Area NWI Mapped Feature

CAM Zone

FEMA Zone Type Subregional Basins

FLOODWAY



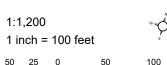
0.2 PCT ANNUAL CHANCE FLOOD HAZARD



1 PCT ANNUAL CHANCE FLOOD HAZARD

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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Source: Esri, Maxar, Earthstar Geographics, and the GIS
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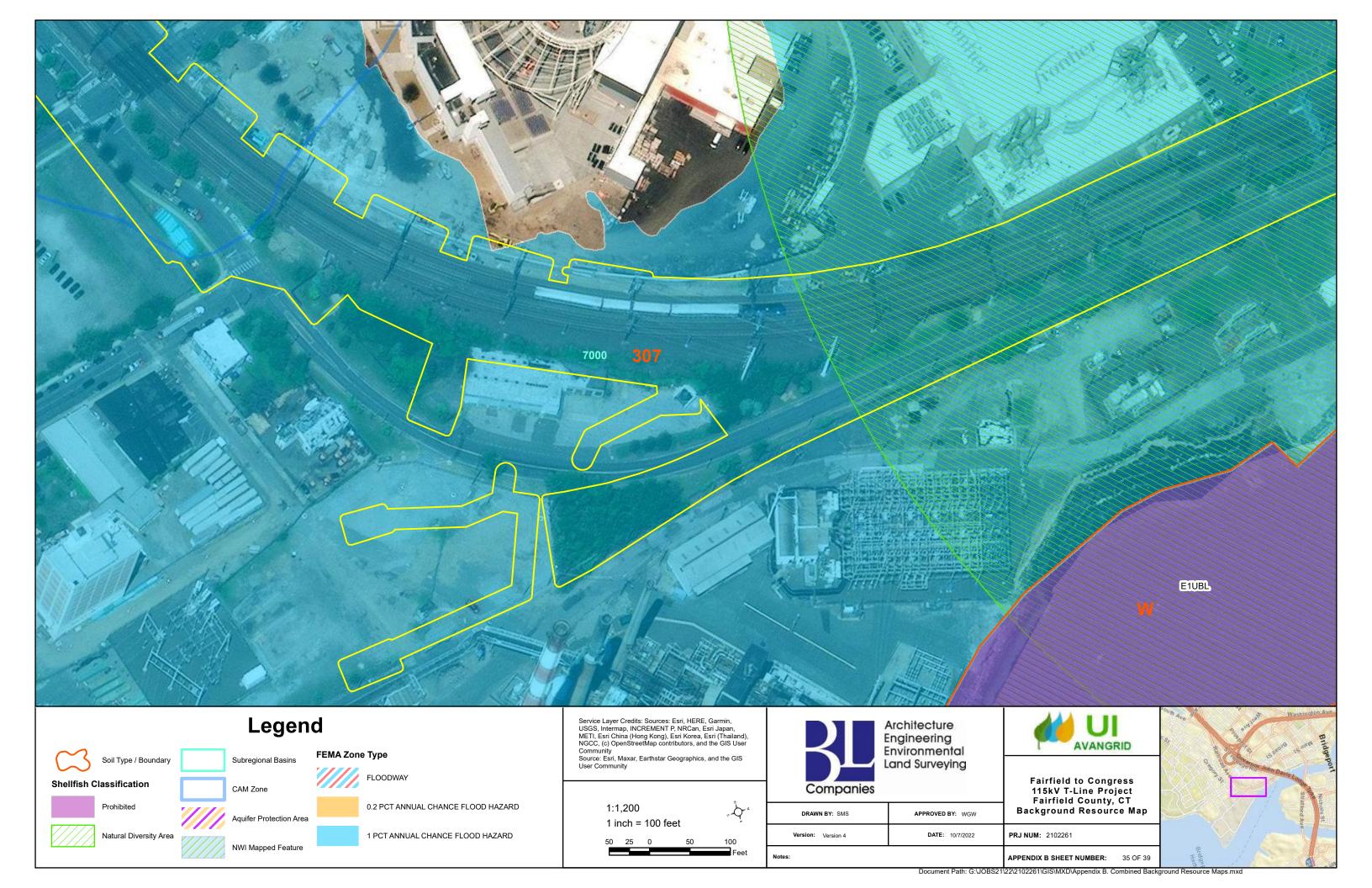
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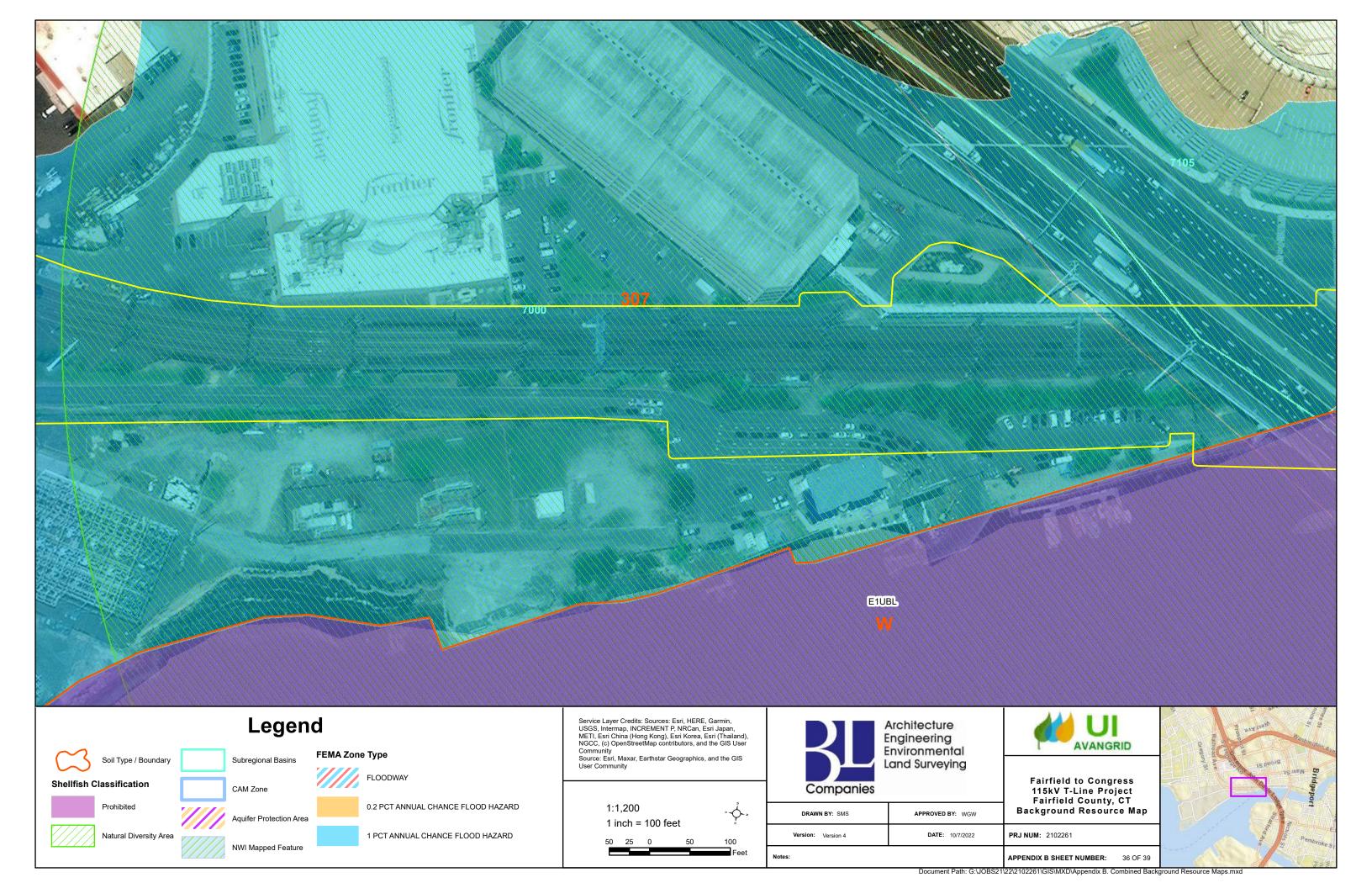


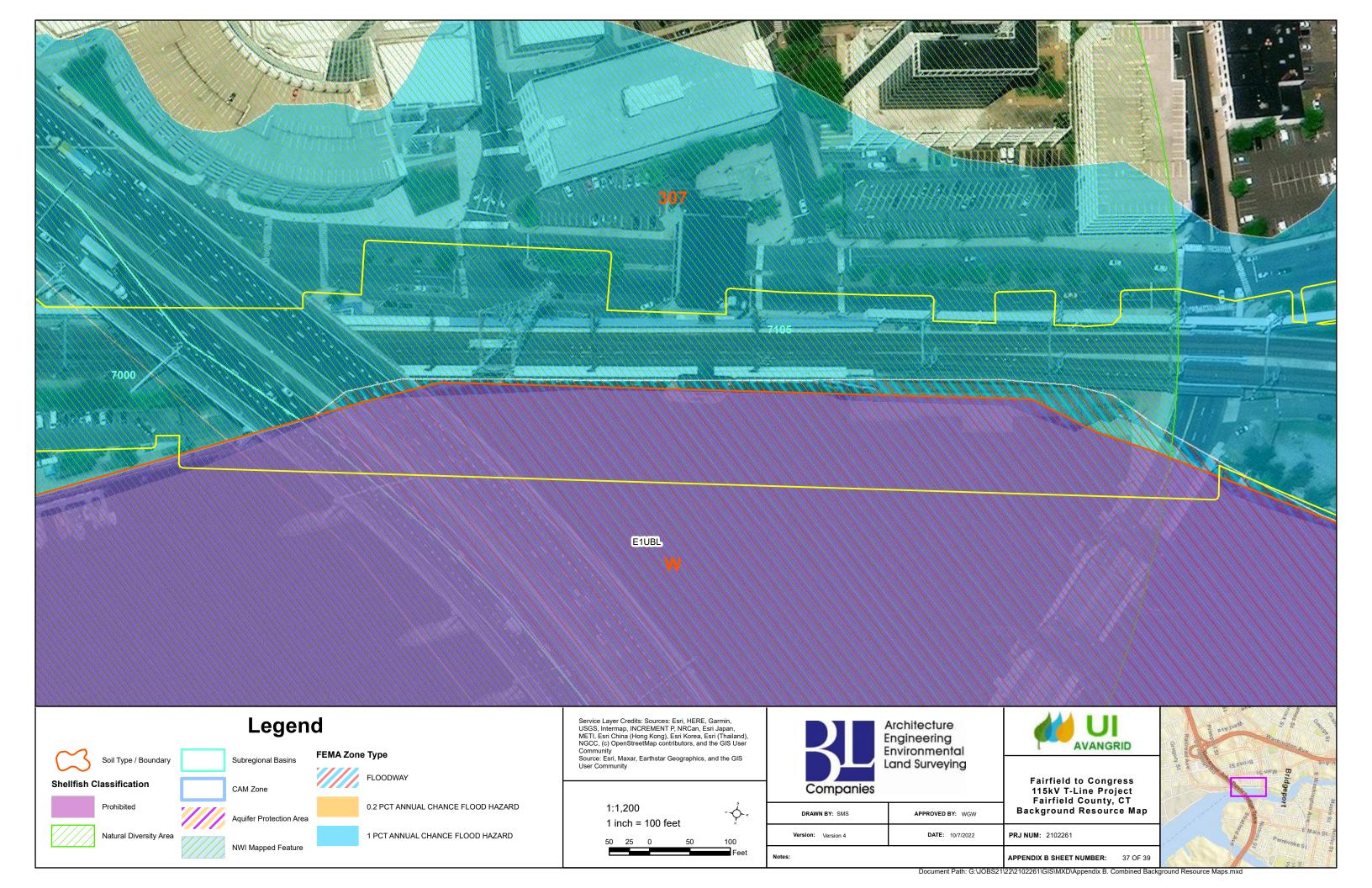
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Background Resource Map

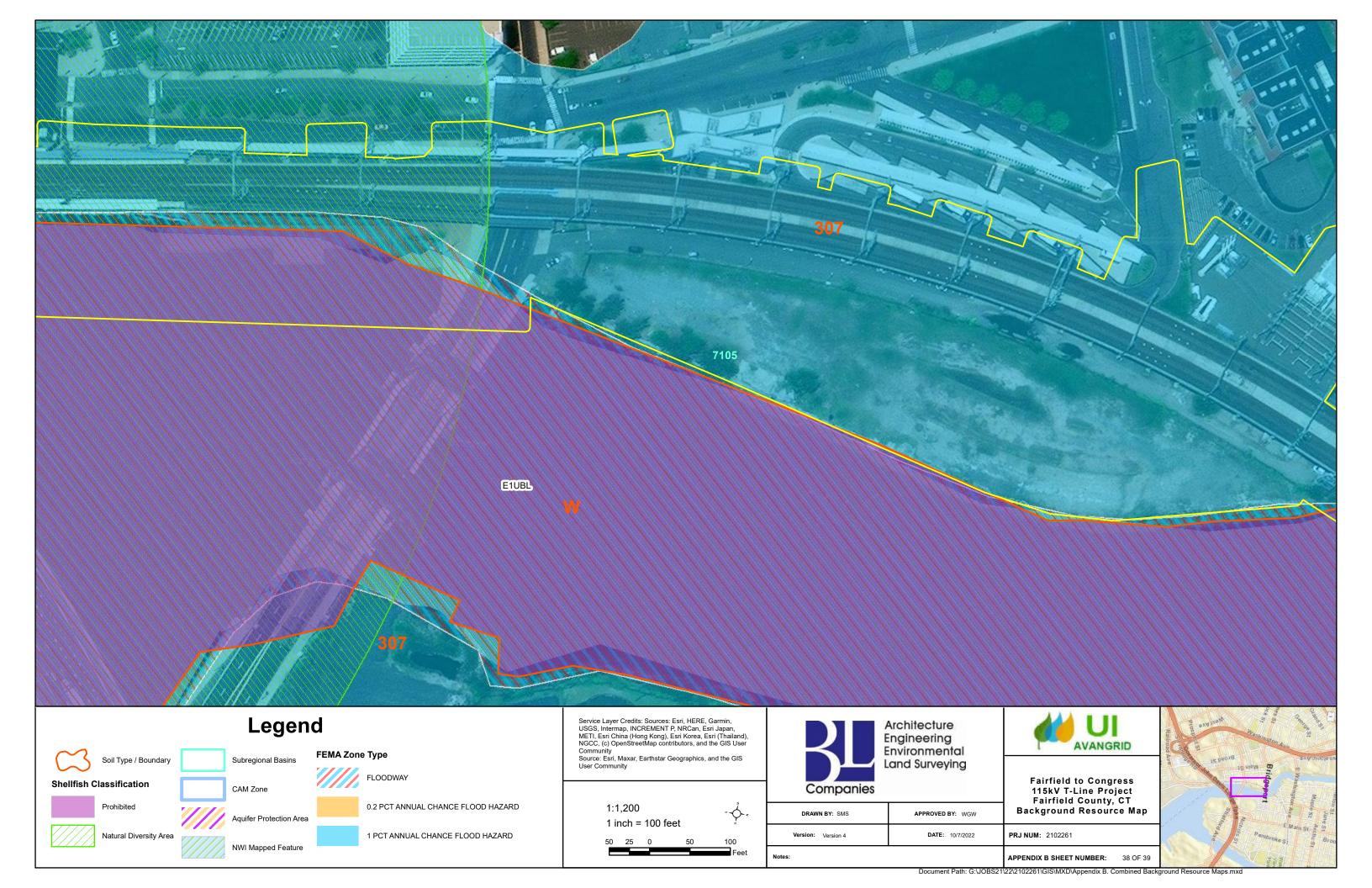
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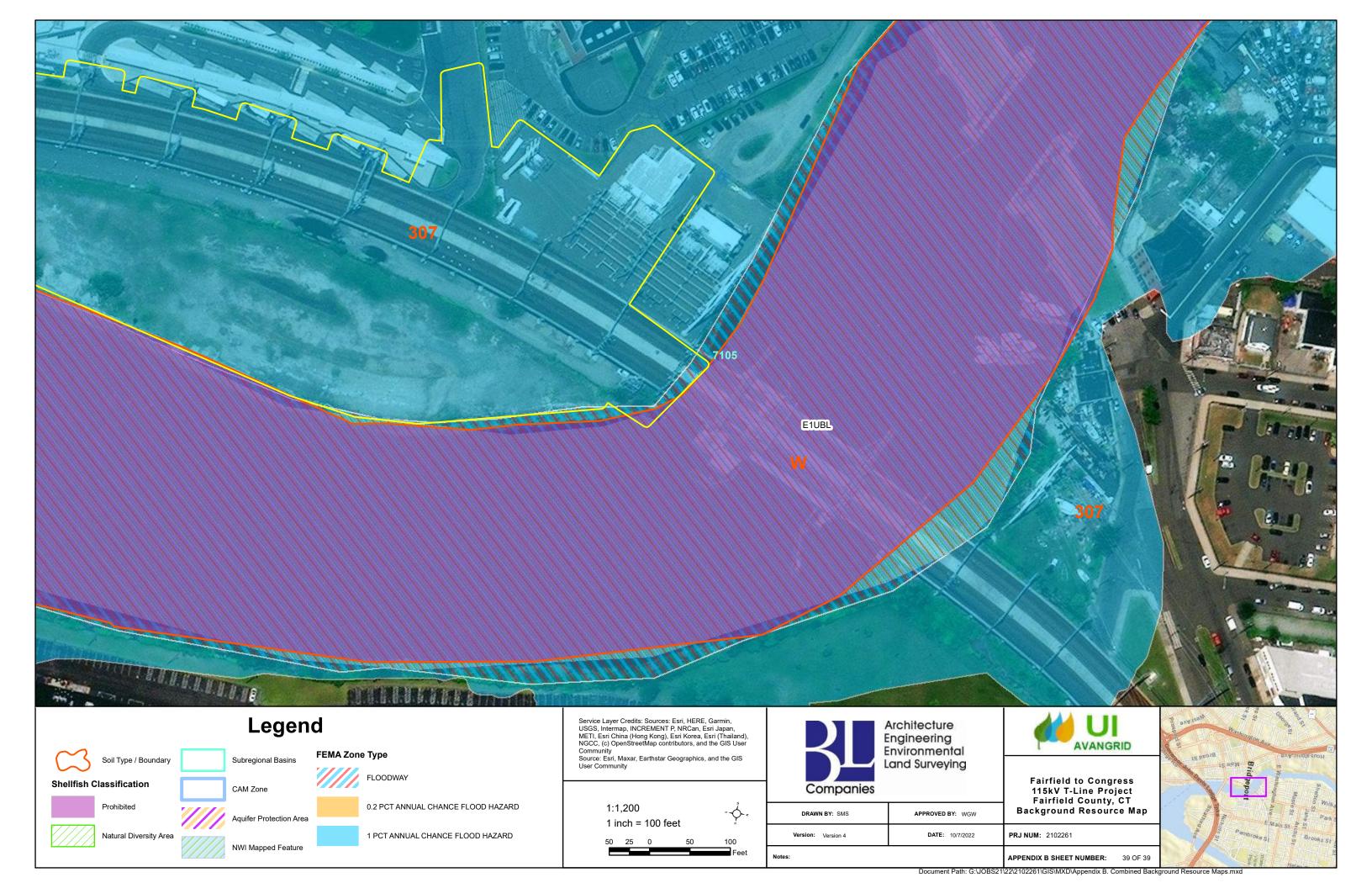
APPENDIX B SHEET NUMBER: 34 OF 39

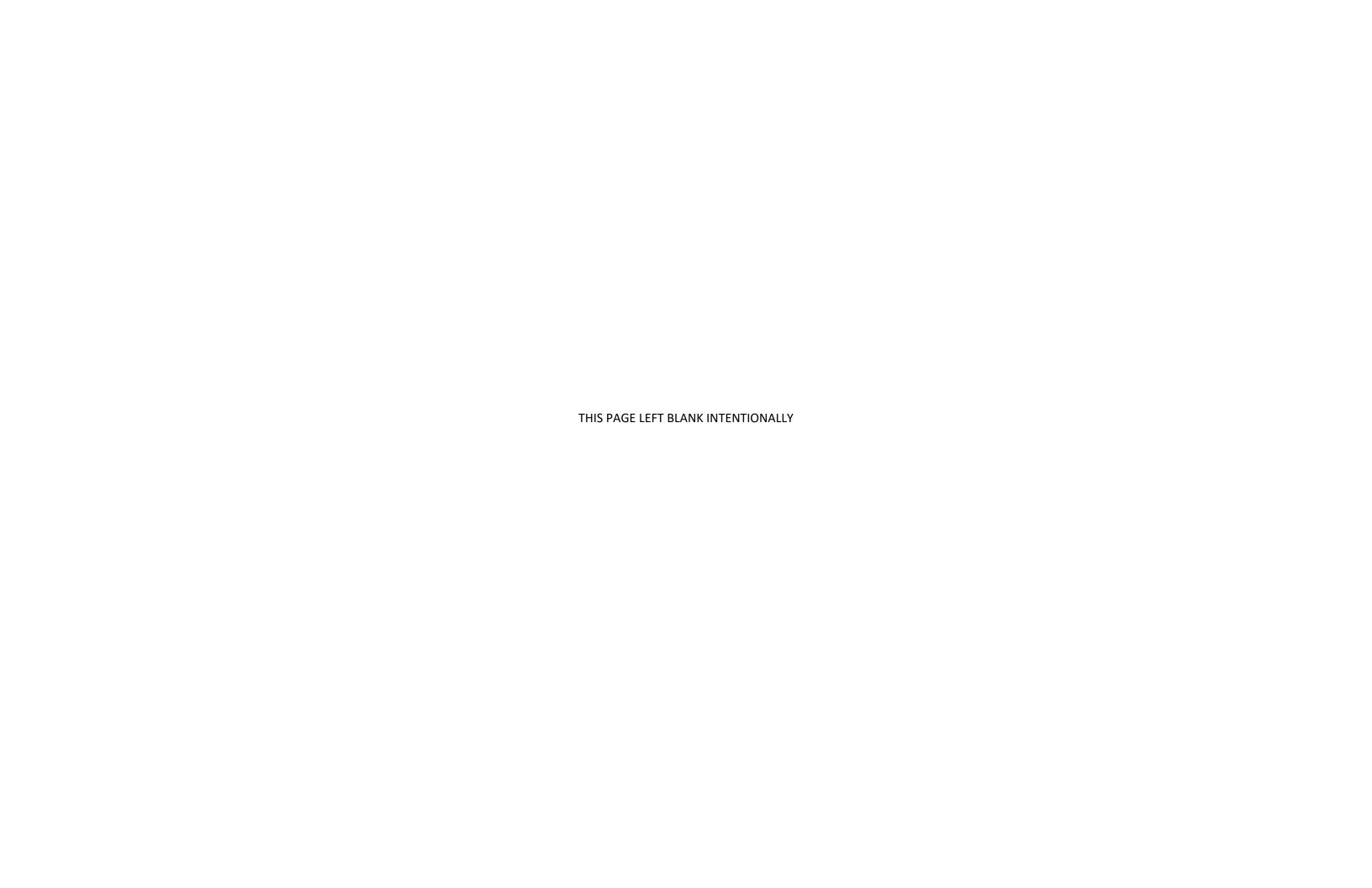






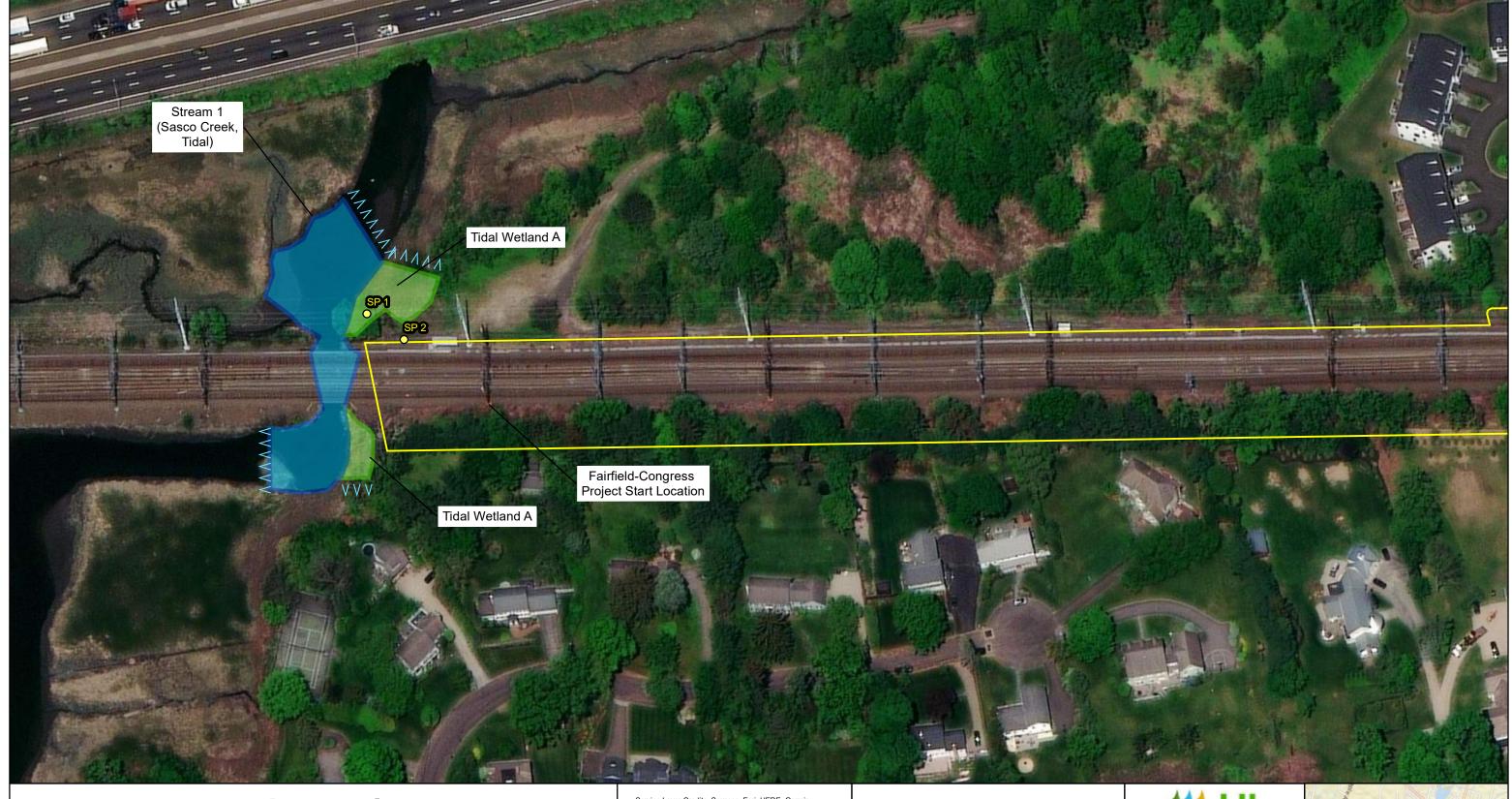






APPENDIX	(: C Water Resou	rces Delineatio	n Mapping







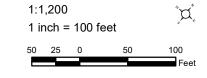
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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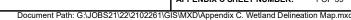
DRAWN BY: SMS APPROVED BY: WGW DATE: 8/30/2022



Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER:







Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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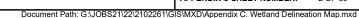
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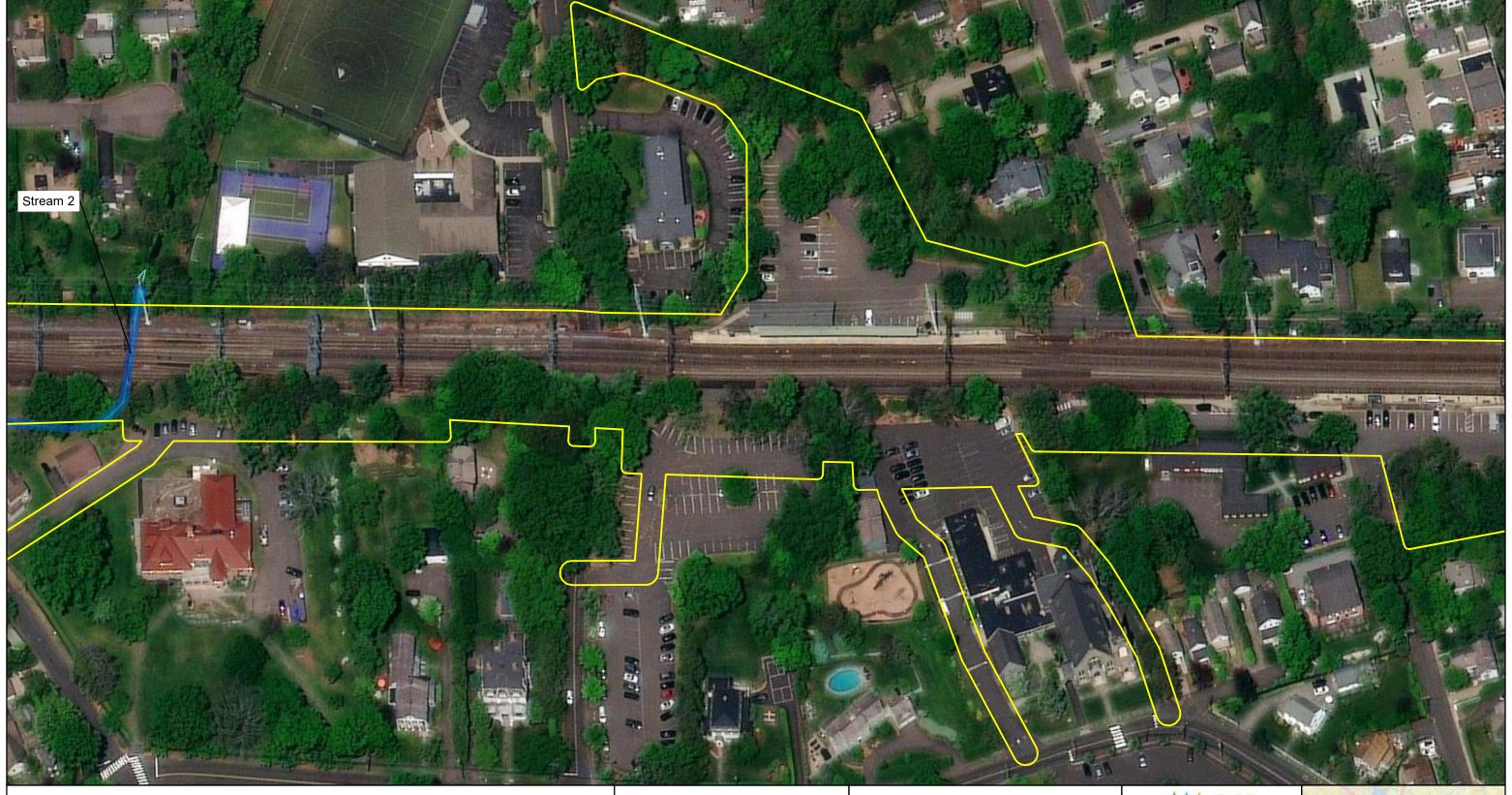


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 2 OF 39







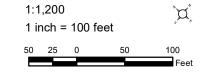
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

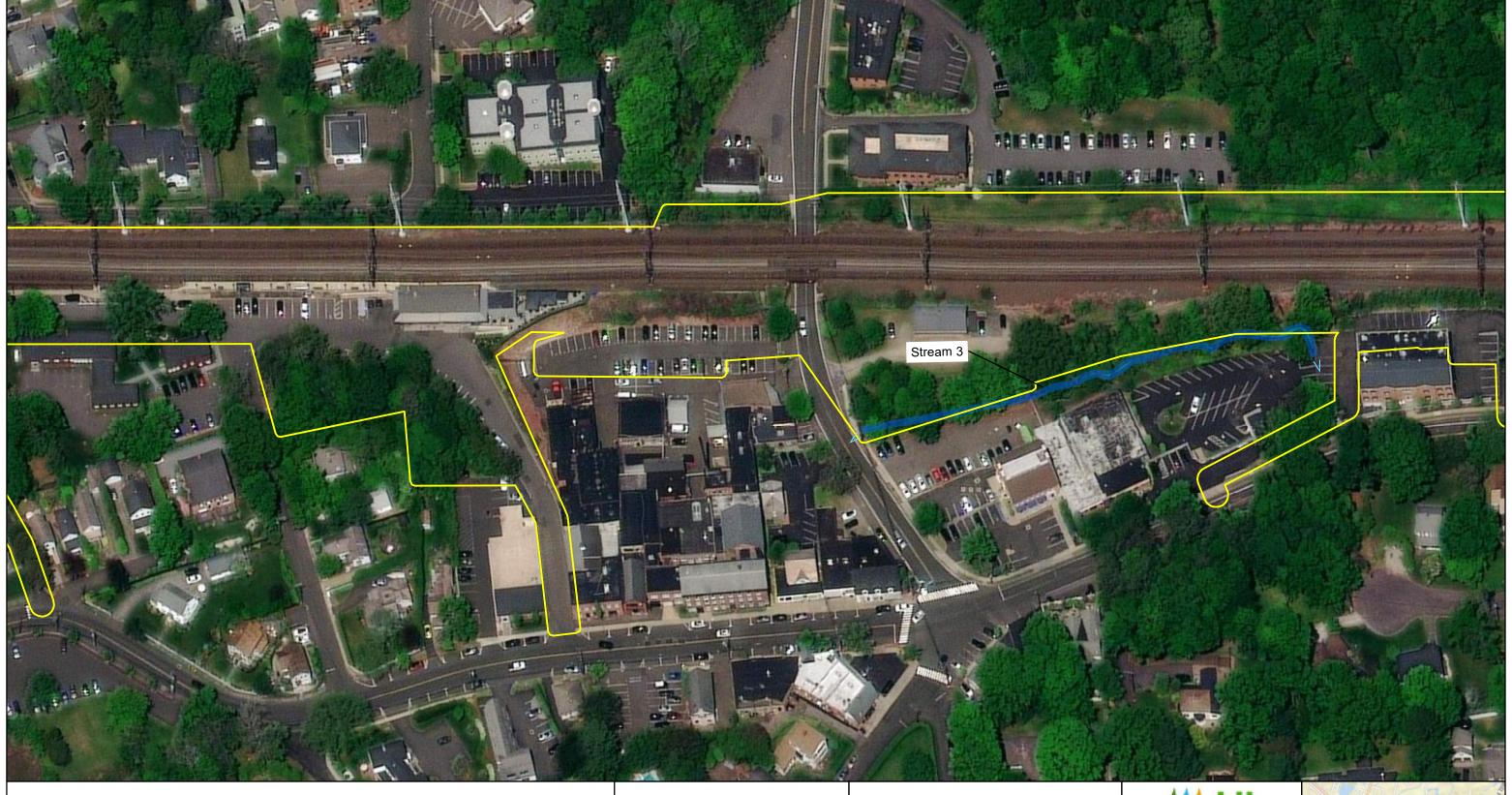
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APPENDIX C SHEET NUMBER: 3 OF 39

PRJ NUM: 2102261



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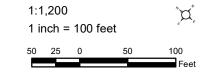
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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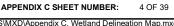
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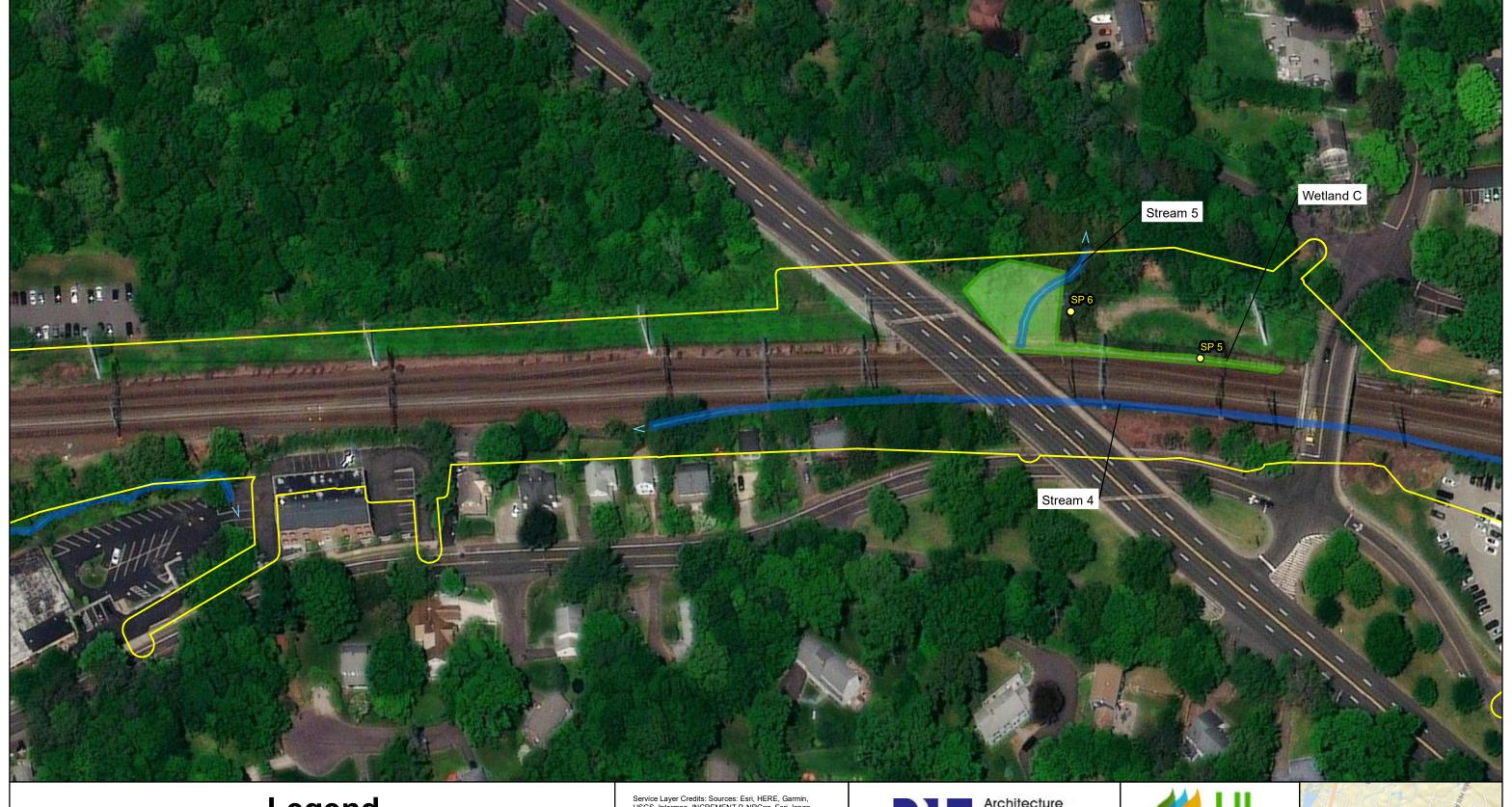
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261







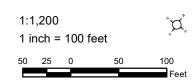
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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Source: Esri, Maxar, Earthstar Geographics, and the GIS
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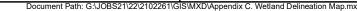
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

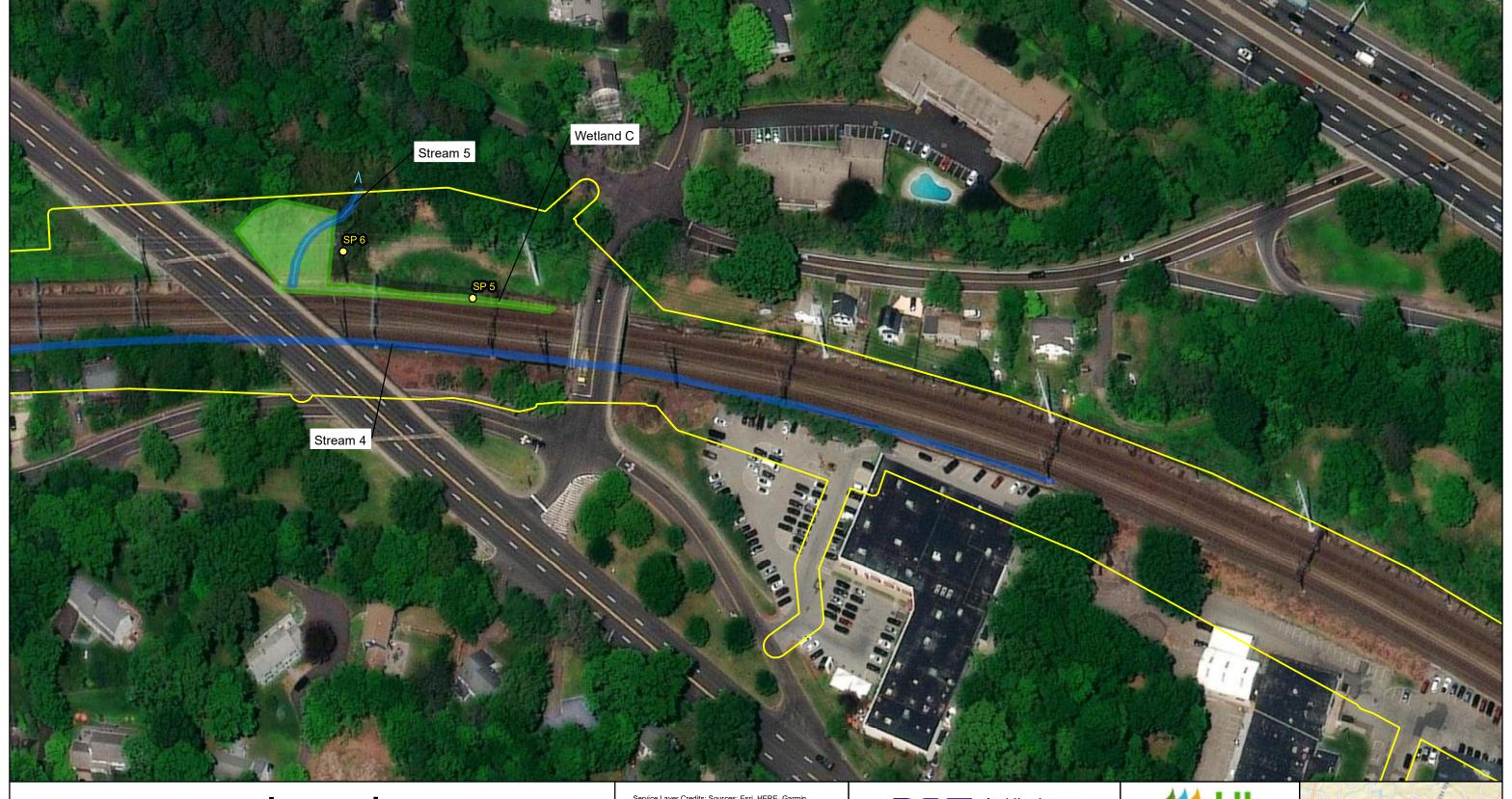
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APPENDIX C SHEET NUMBER: 5 OF 39







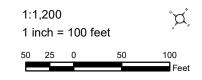
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
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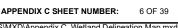
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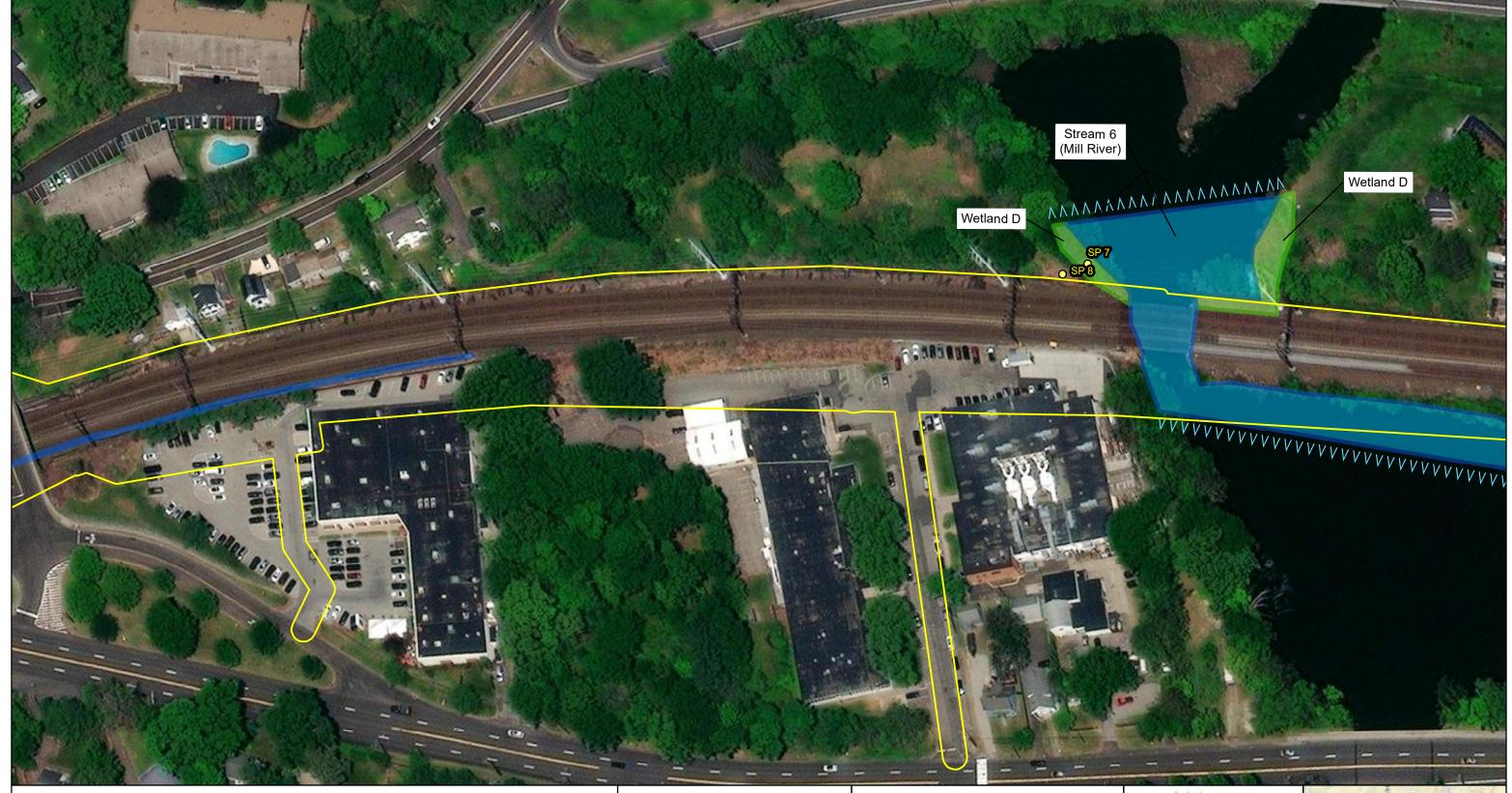


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261









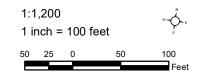
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
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Version: Version 3	DATE: 8/30/2022	

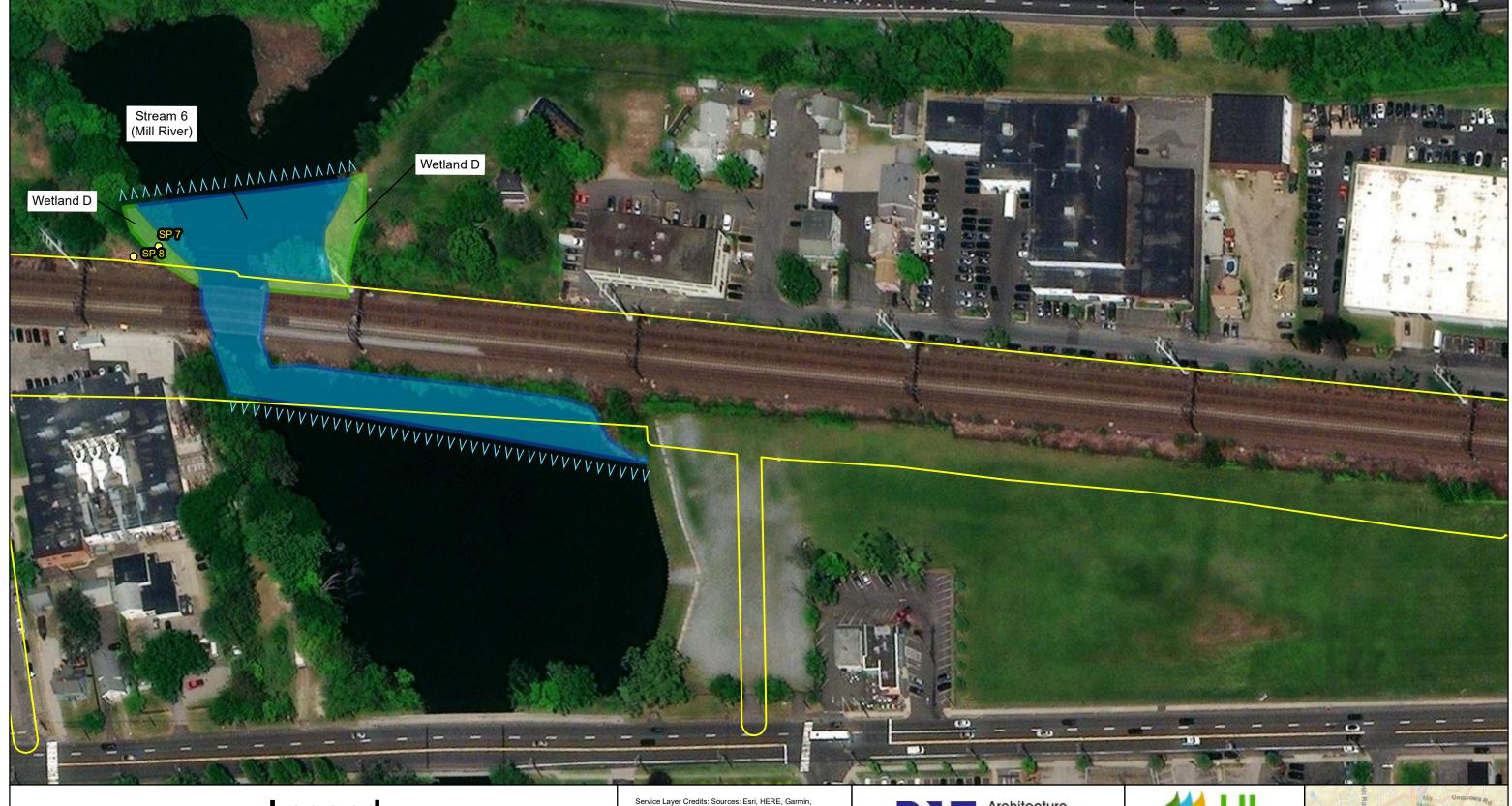


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 7 OF 39







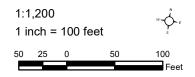
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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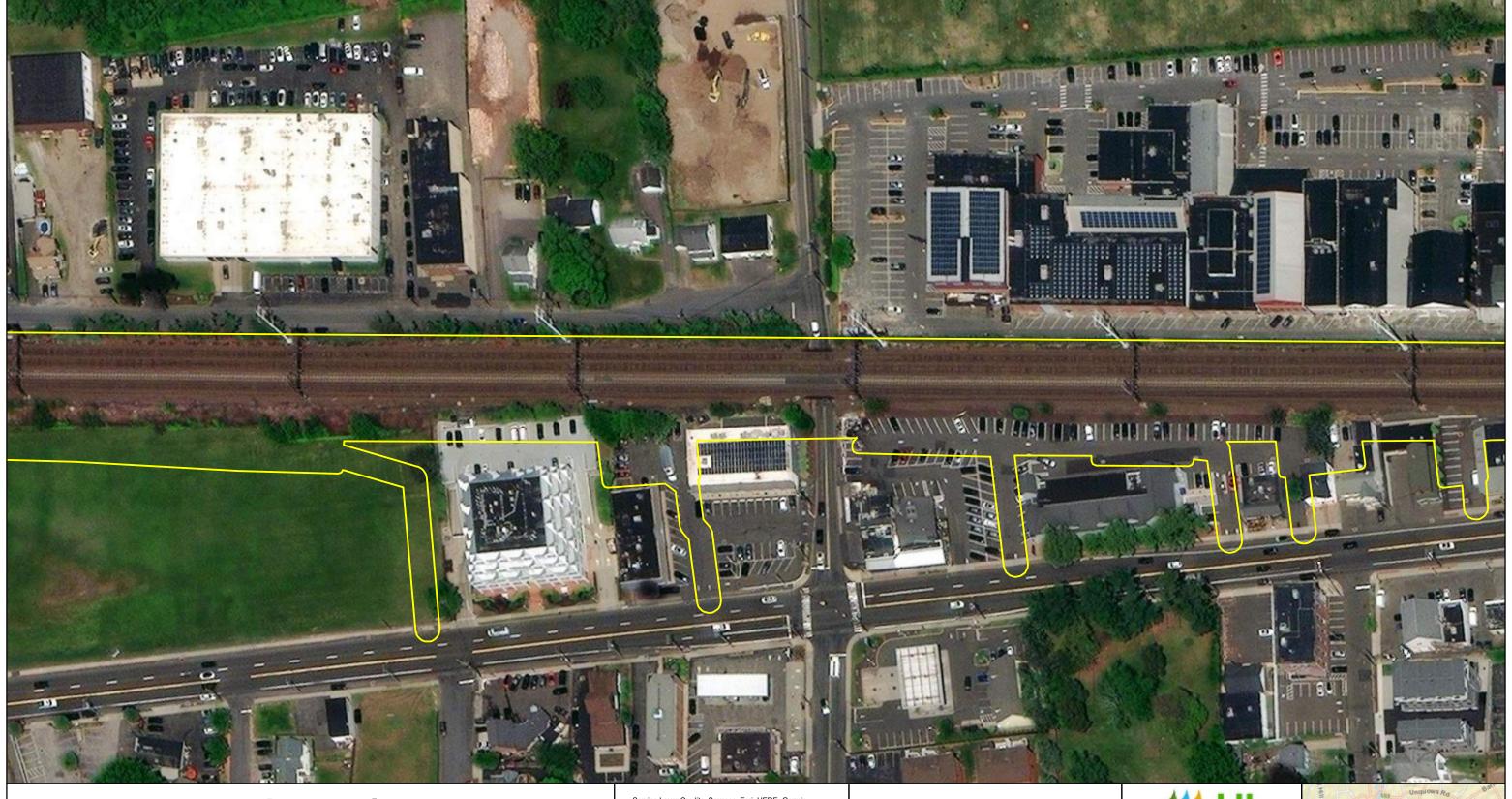
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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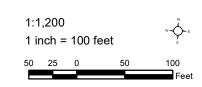
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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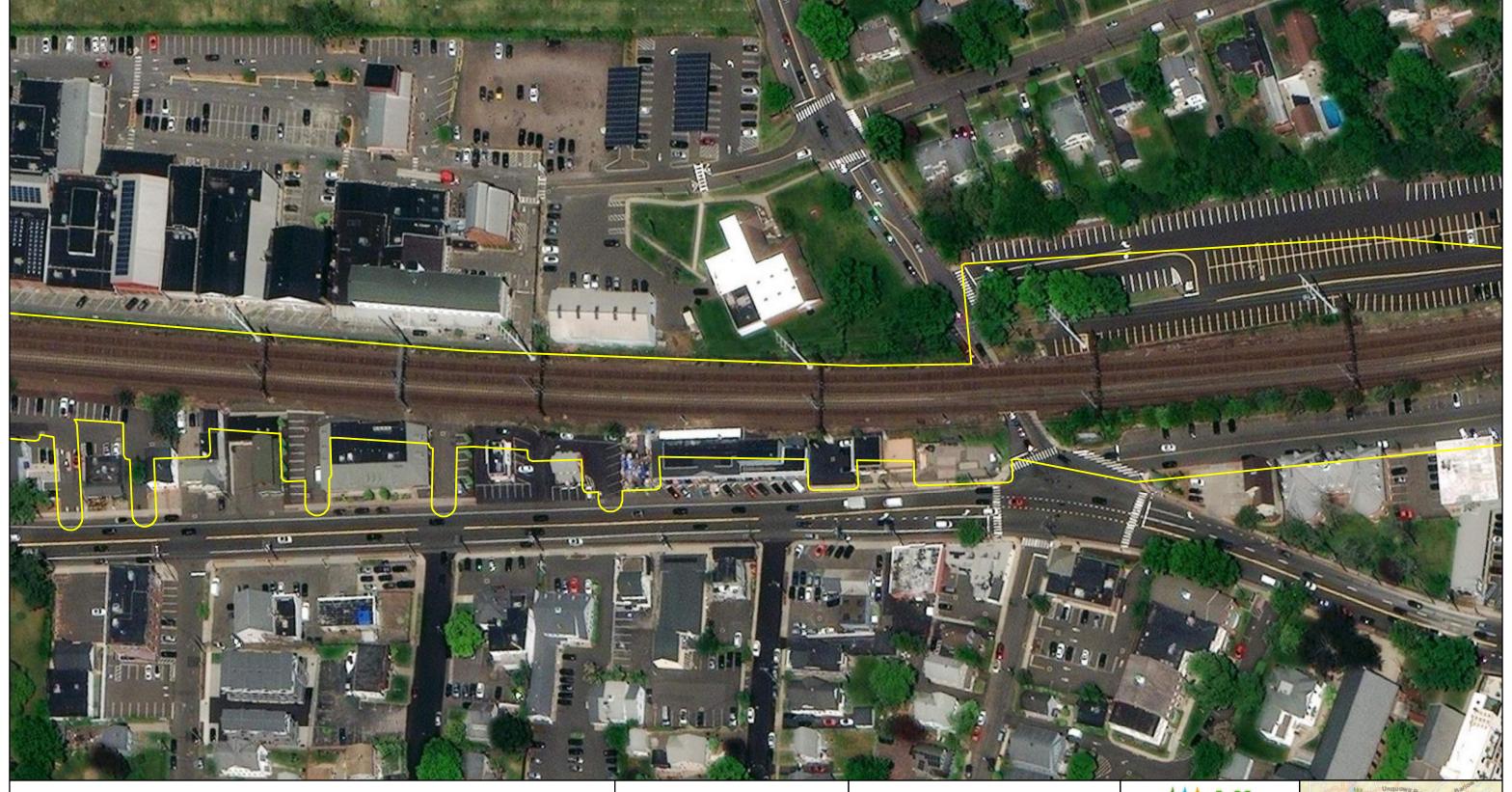


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 9 OF 39

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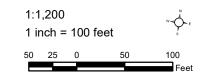
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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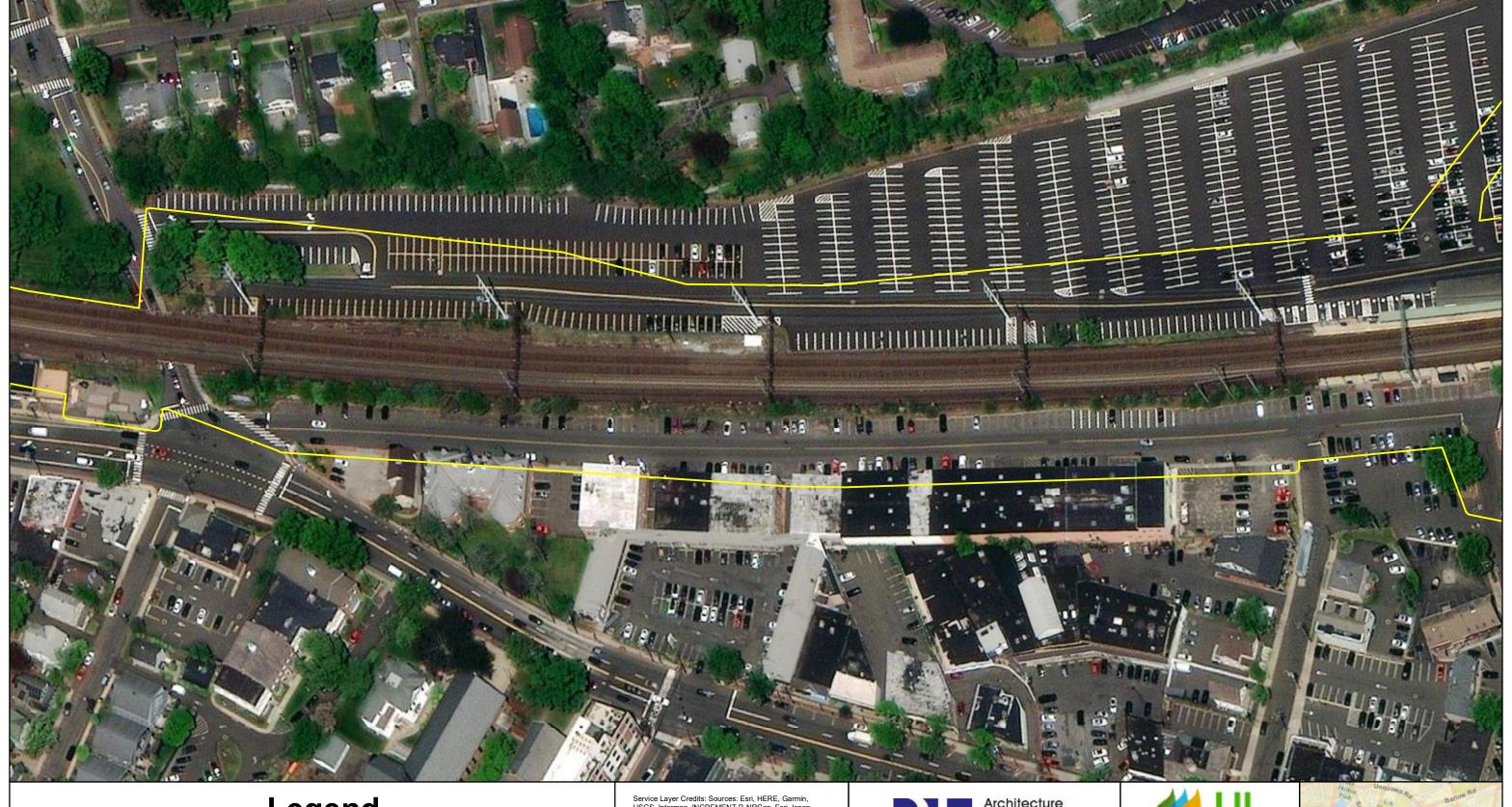
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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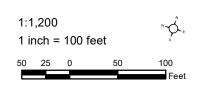
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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 DATE: 8/30/2022

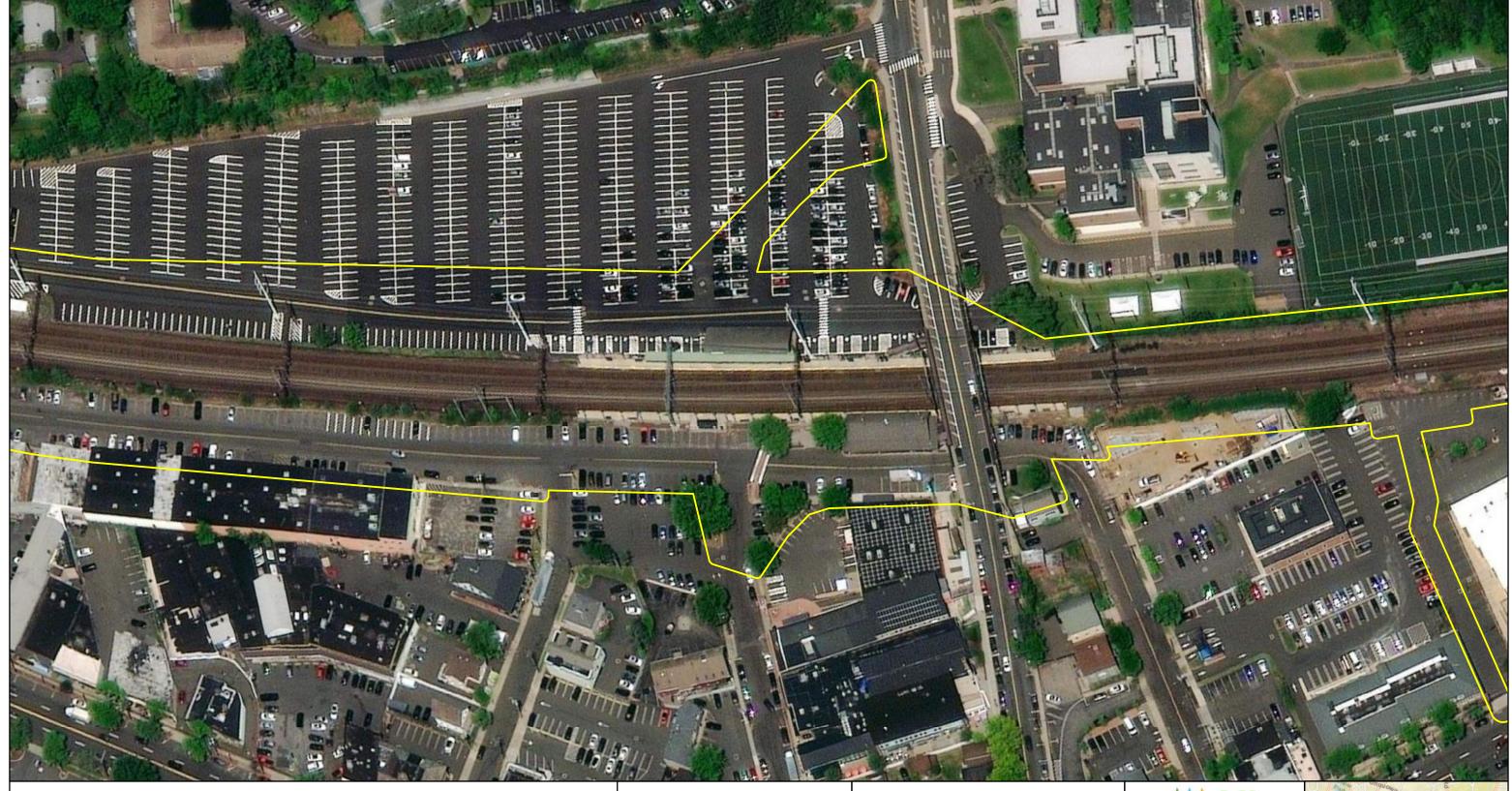


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 11 OF 3

Document Path: G:\JOBS21\22\2102261\GIS\MXD\Appendix C. Wetland Delineation Map.mx





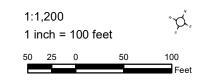
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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Source: Esri, Maxar, Earthstar Geographics, and the GIS
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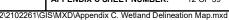
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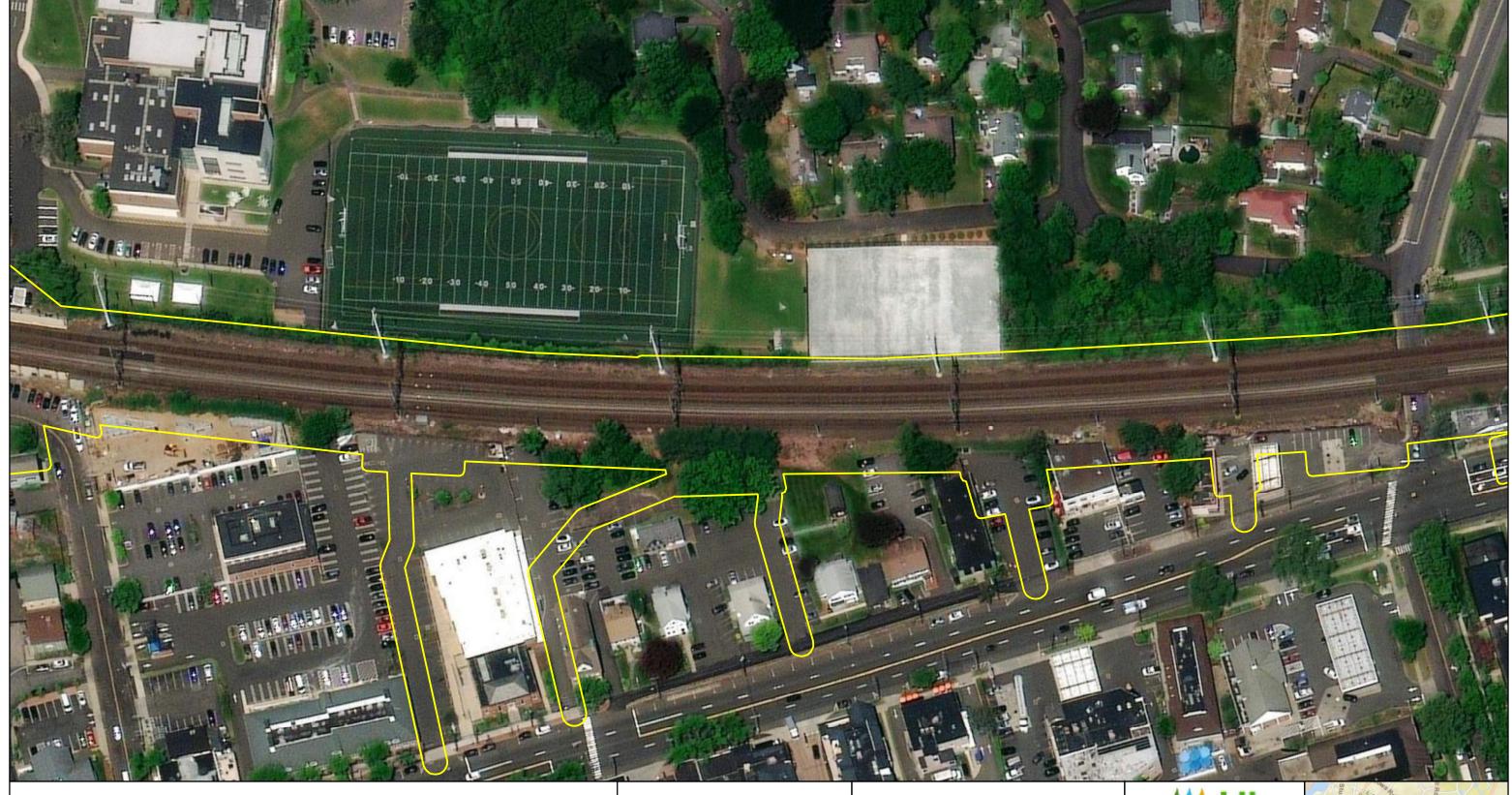


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
User Community

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

DATE: 8/30/2022

PRJ NUM: 2102261

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
User Community

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 APPROVED BY: WGW

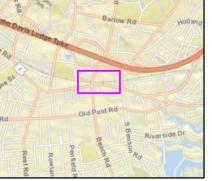
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 DATE: 8/30/2022



Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

DATE: 8/30/2022 PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 14 OF 39



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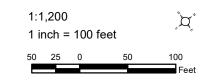
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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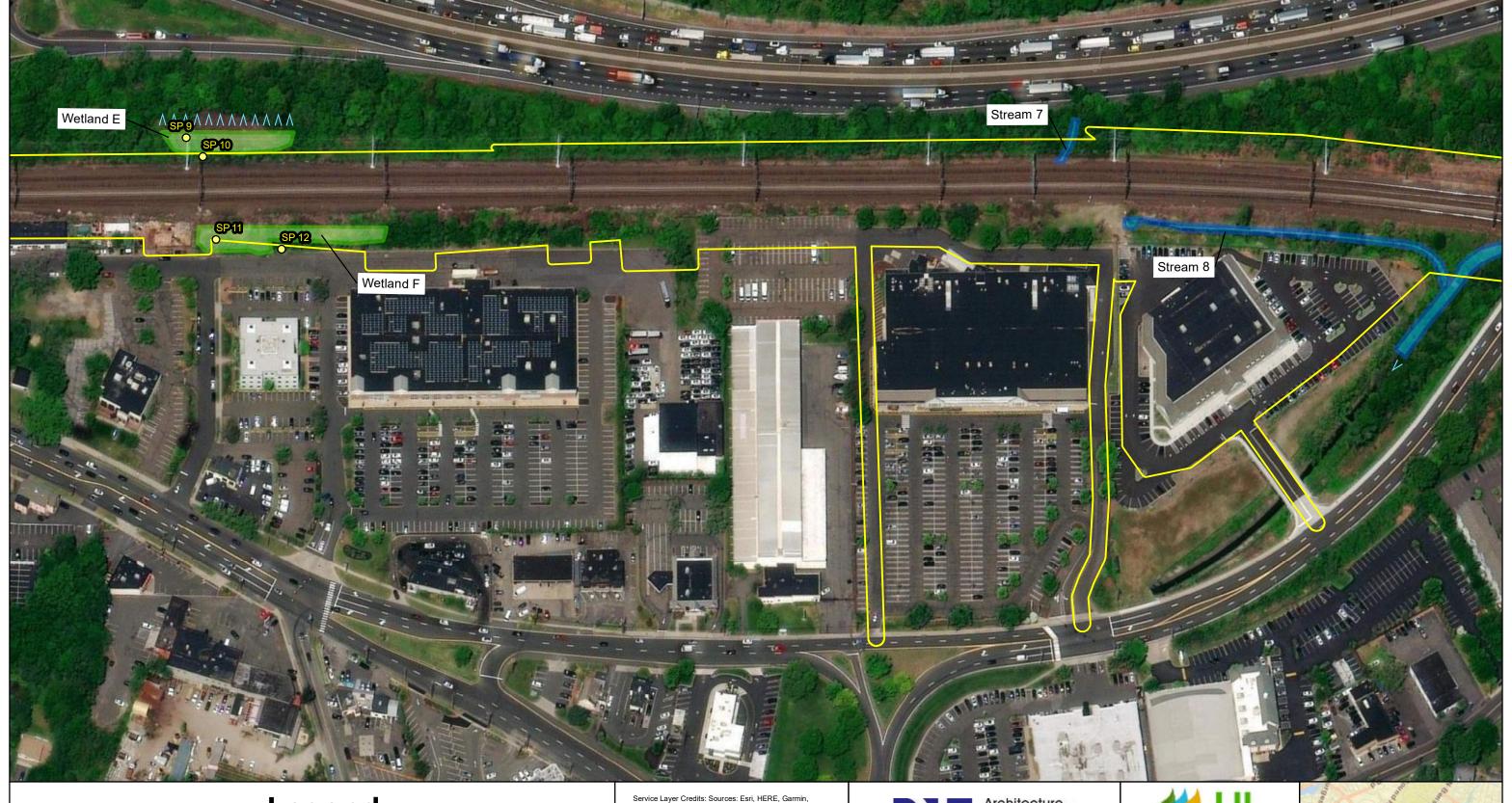


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 15 OF 39

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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1:1,800 1 inch = 150 feet



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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 16 OF 39

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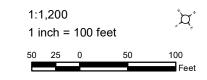
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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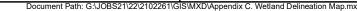
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DATE: 8/30/2022 PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 17 OF 39







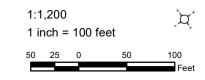
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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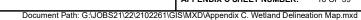
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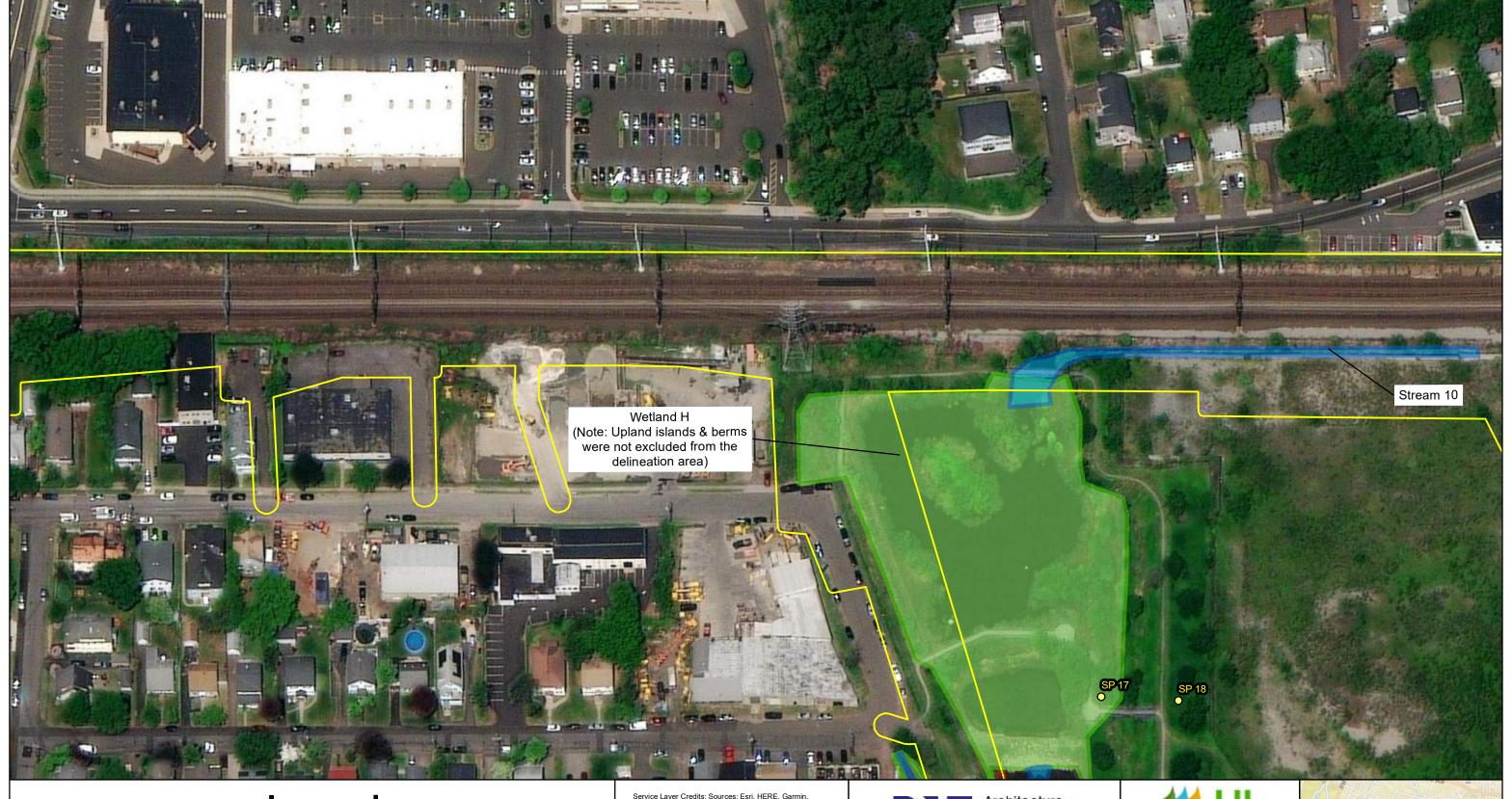
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

AVANGRID

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER:







Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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Source: Esri, Maxar, Earthstar Geographics, and the GIS
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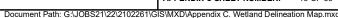
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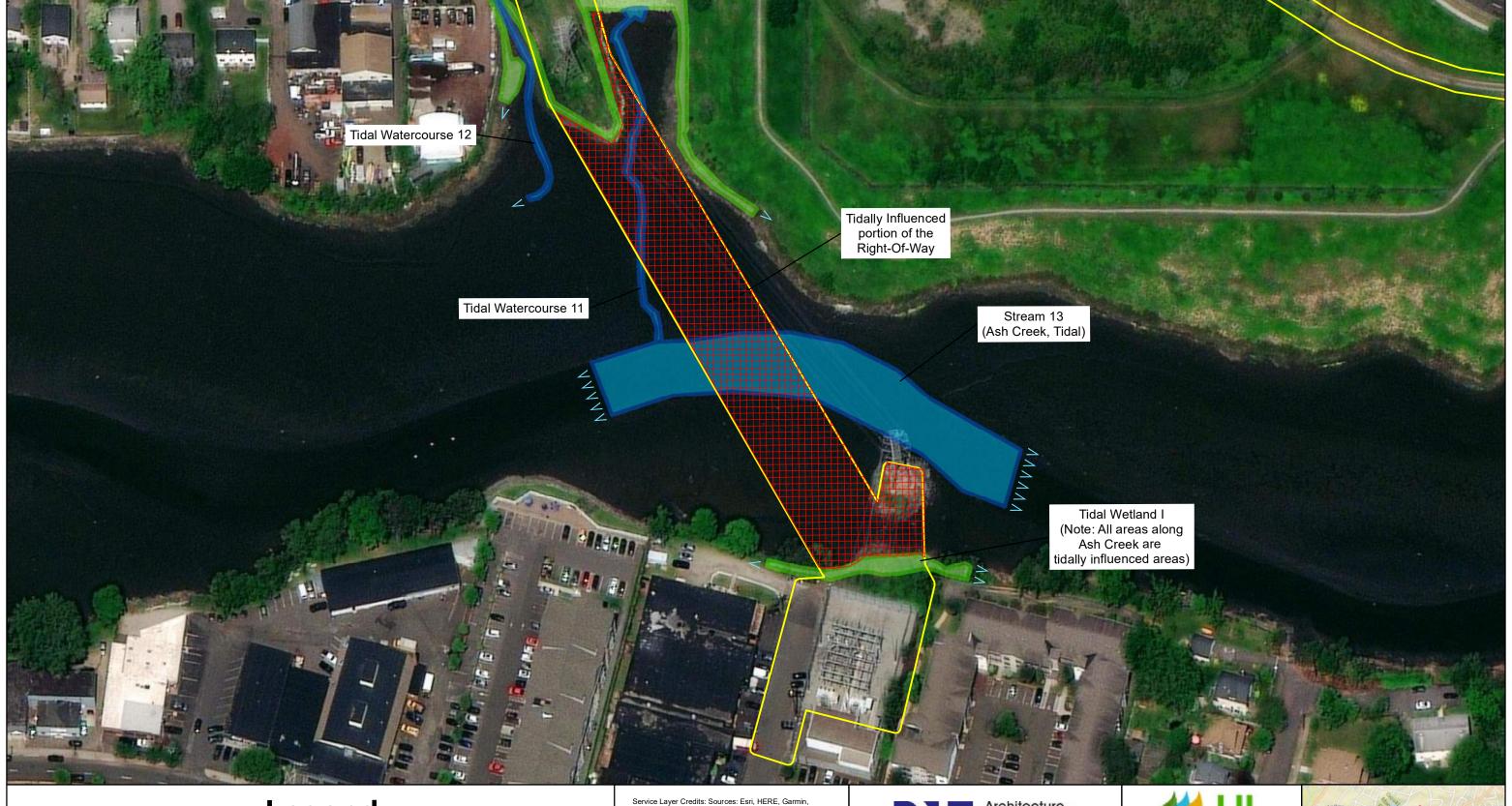


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 19 OF 39







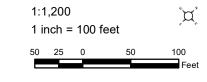
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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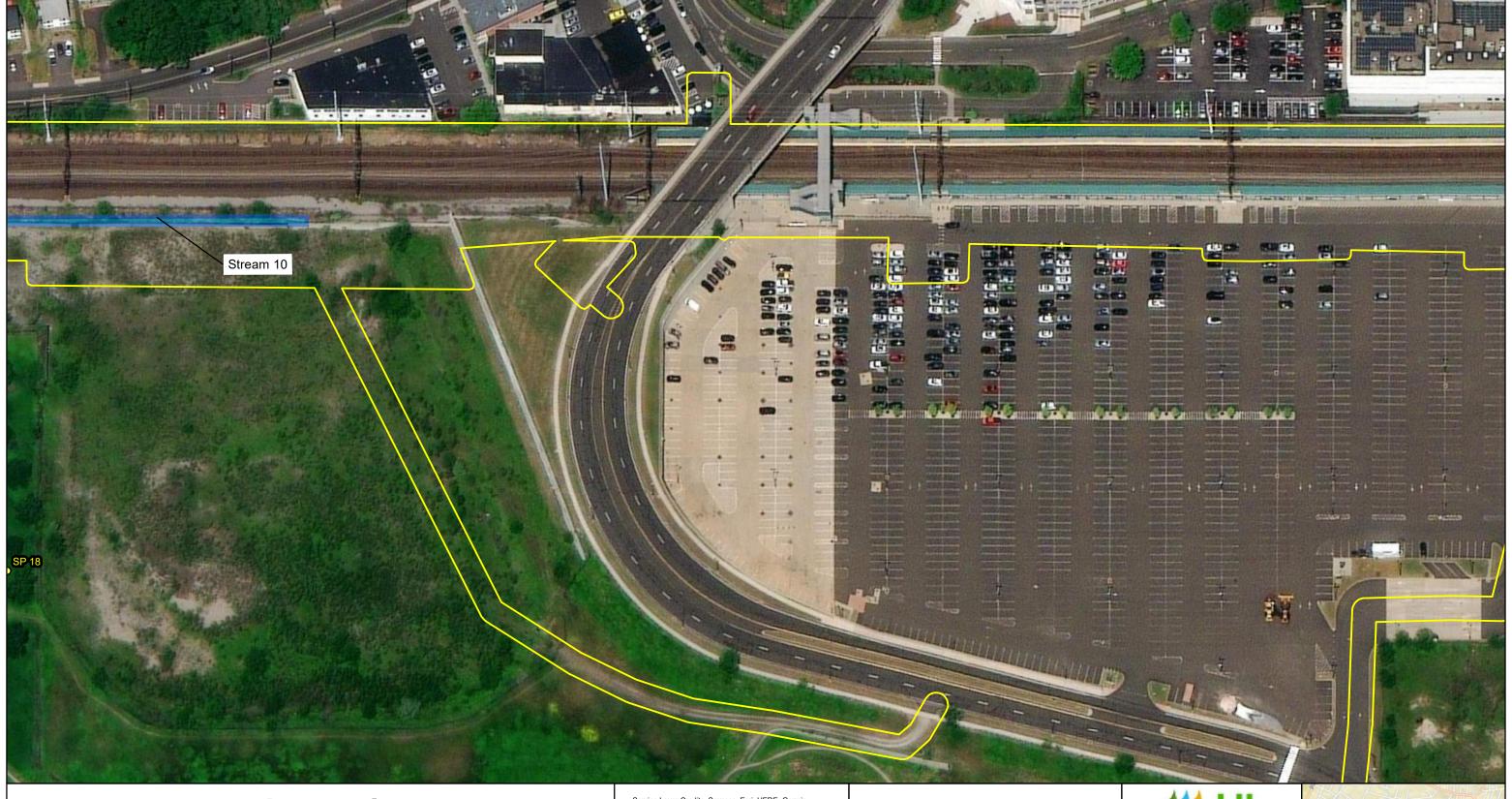


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 20 OF 39







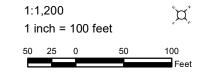
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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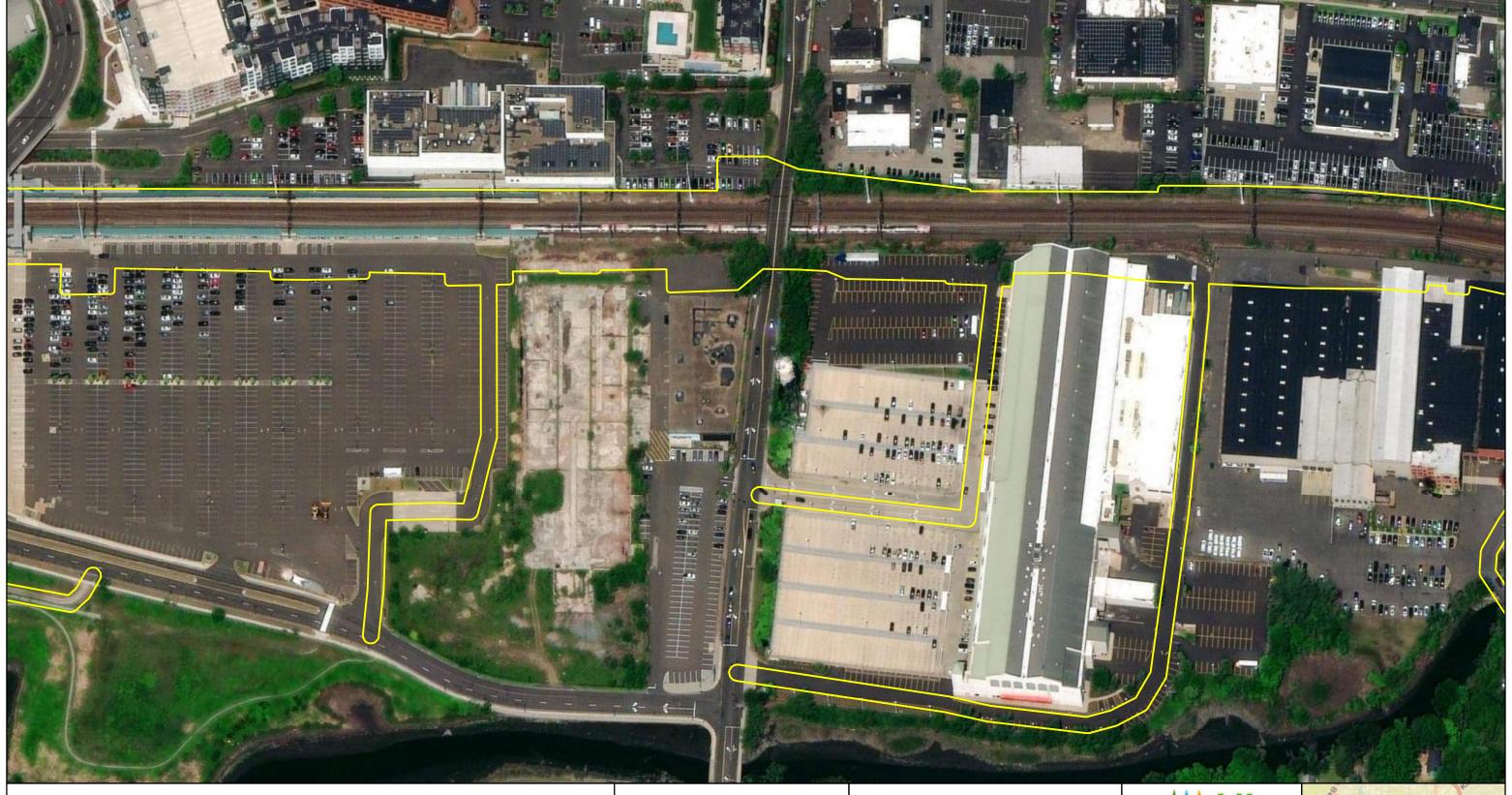
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 21 OF 39



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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

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1:1,800 1 inch = 150 feet







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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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APPENDIX C SHEET NUMBER: 22 OF 39

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
User Community

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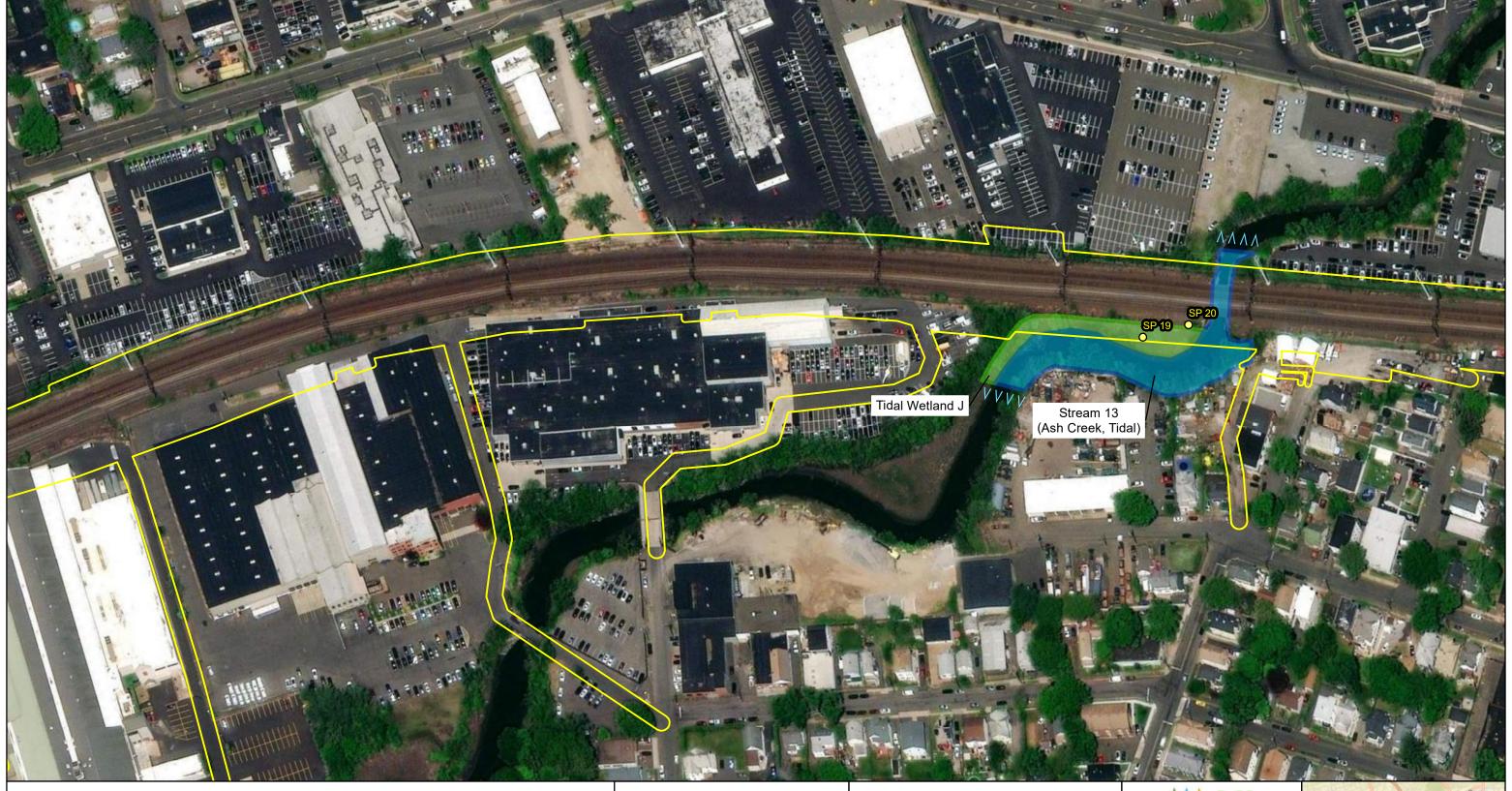


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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PRJ NUM: 2102261







Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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1:1,800 1 inch = 150 feet





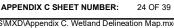
Architecture Engineering Environmental Land Surveying

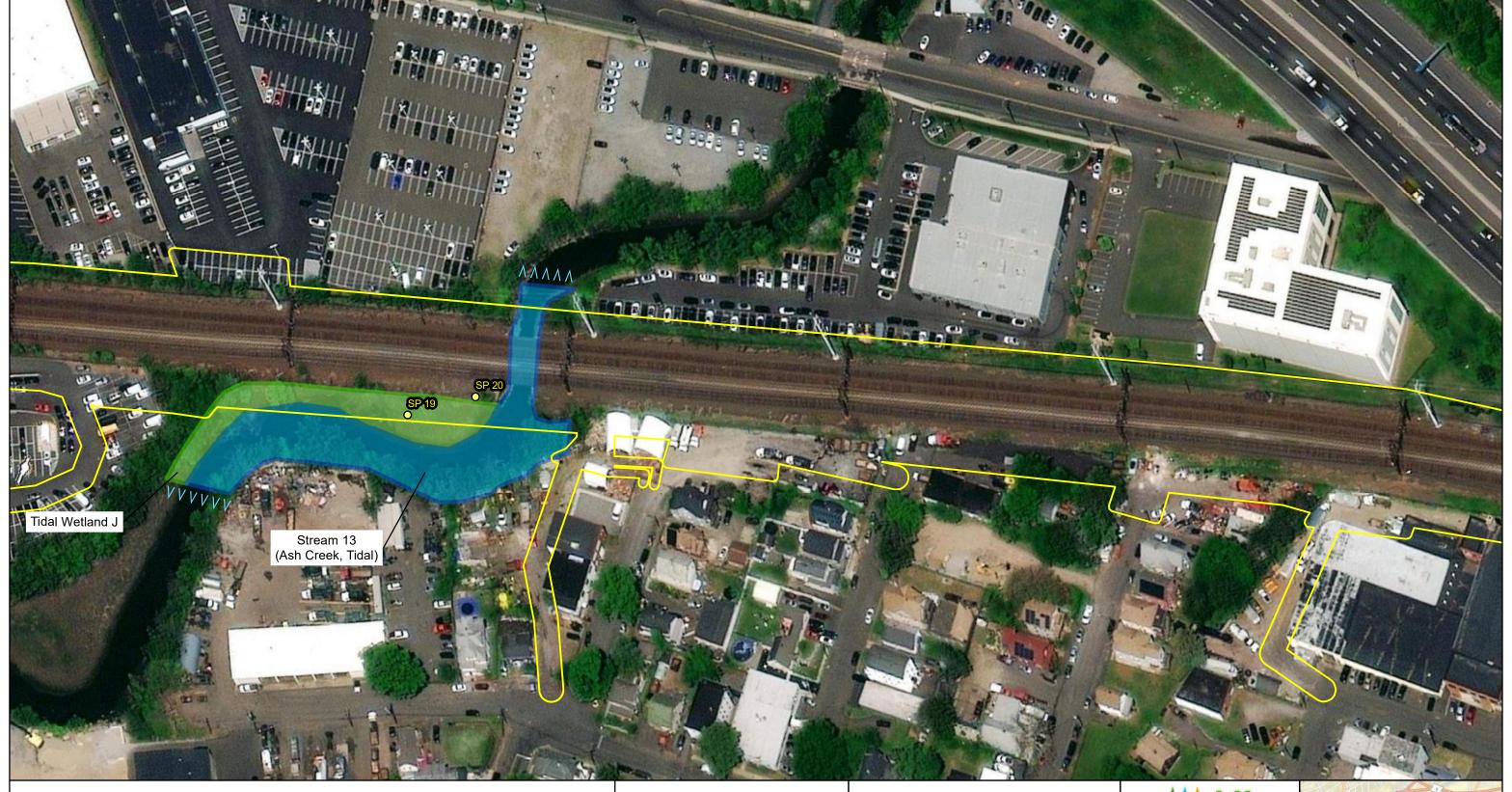
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261







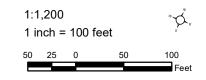
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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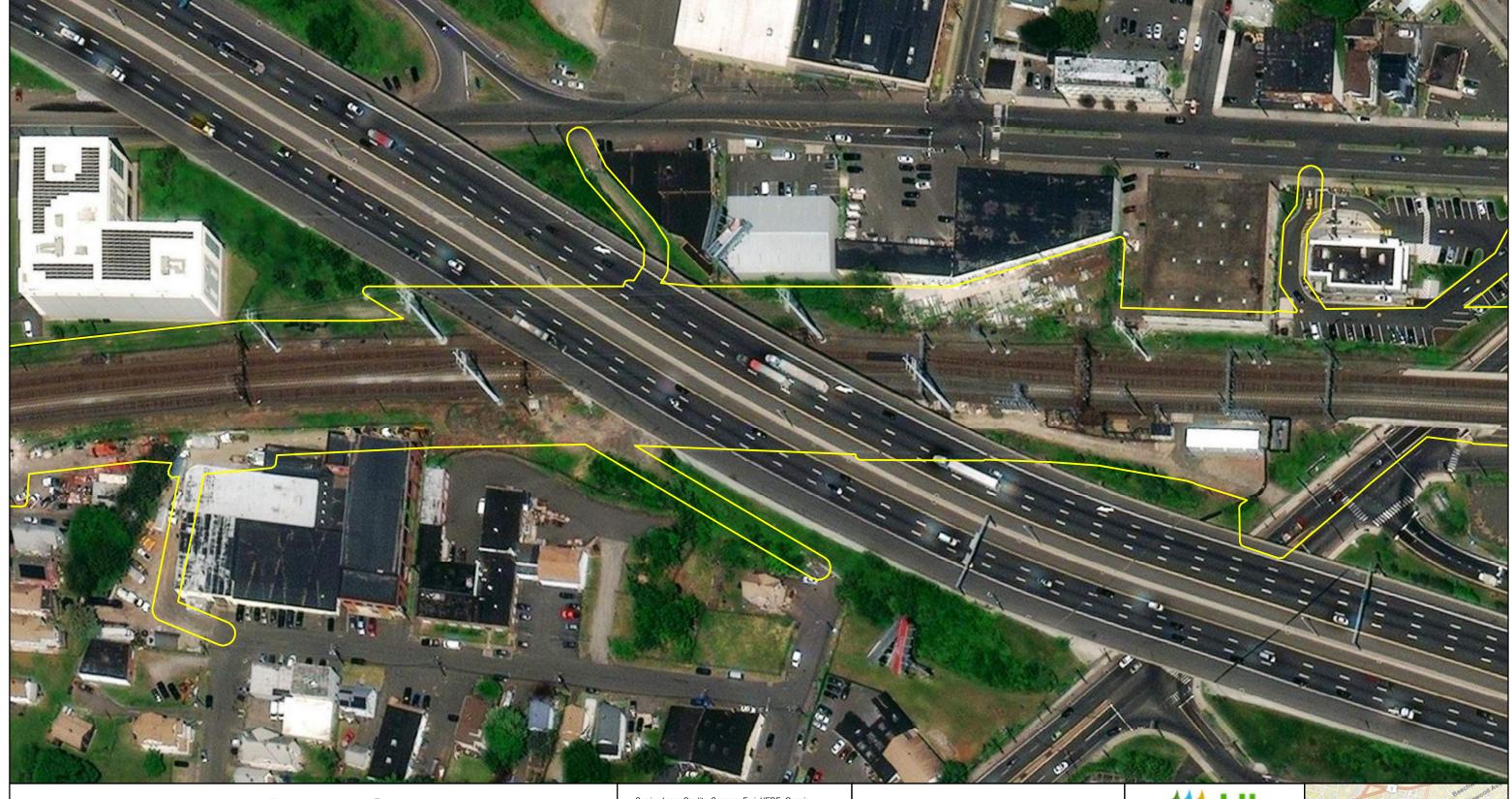


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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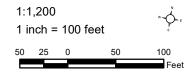
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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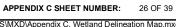
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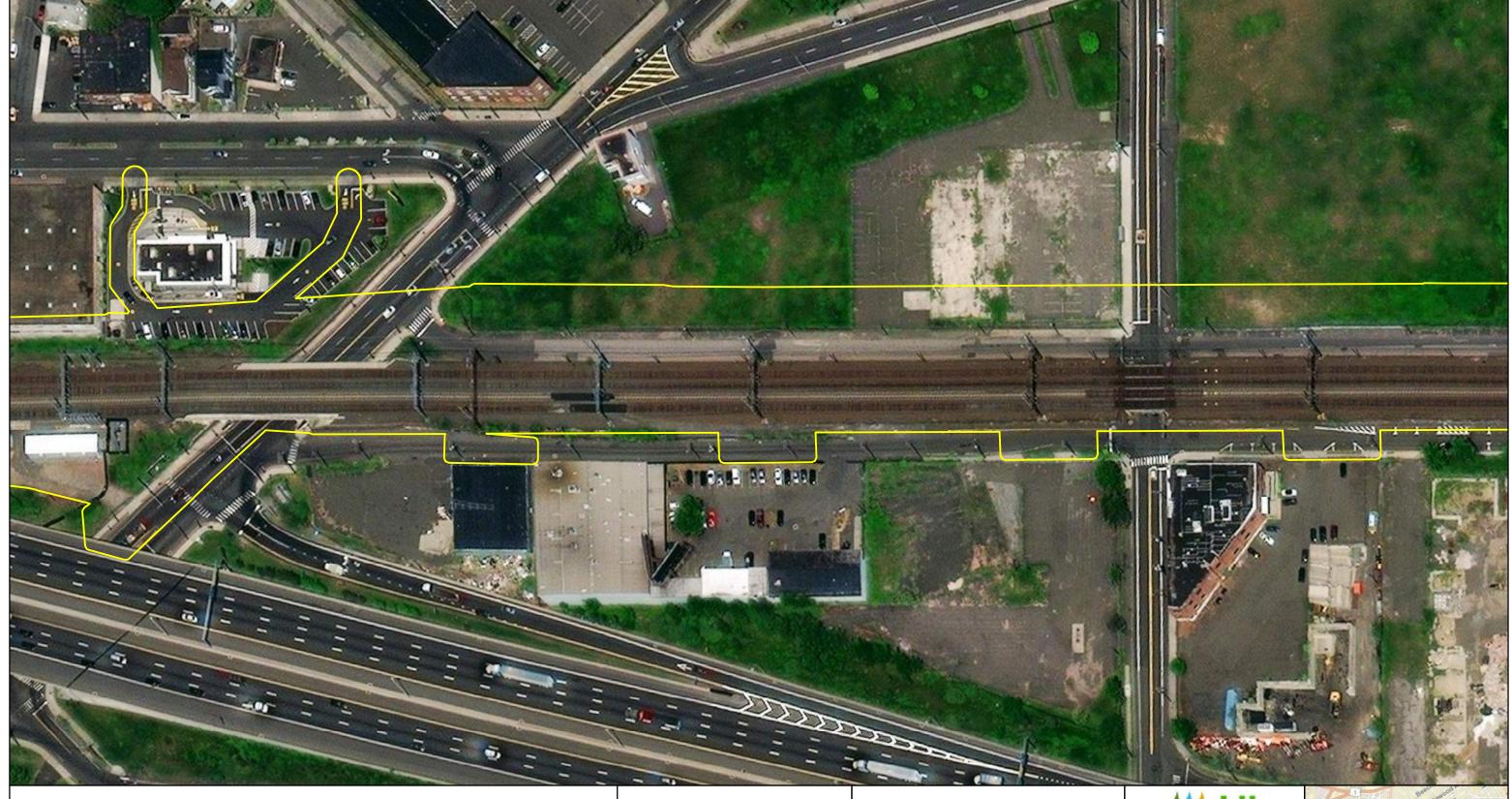


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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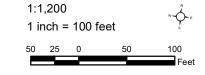
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Compan

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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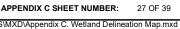
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

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1:1,800 1 inch = 150 feet







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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

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Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
User Community

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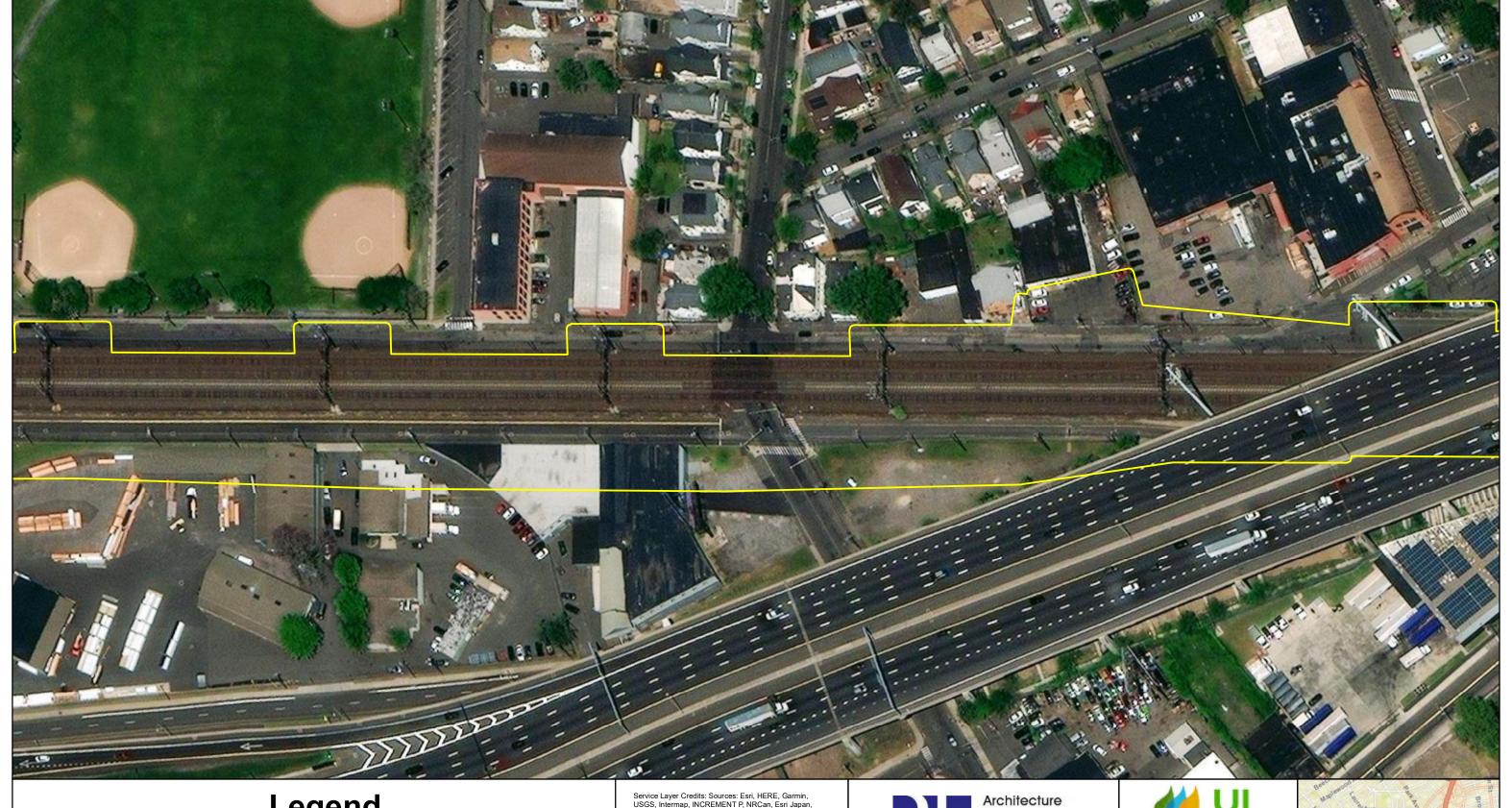
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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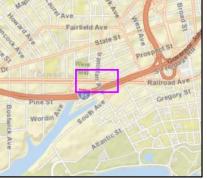
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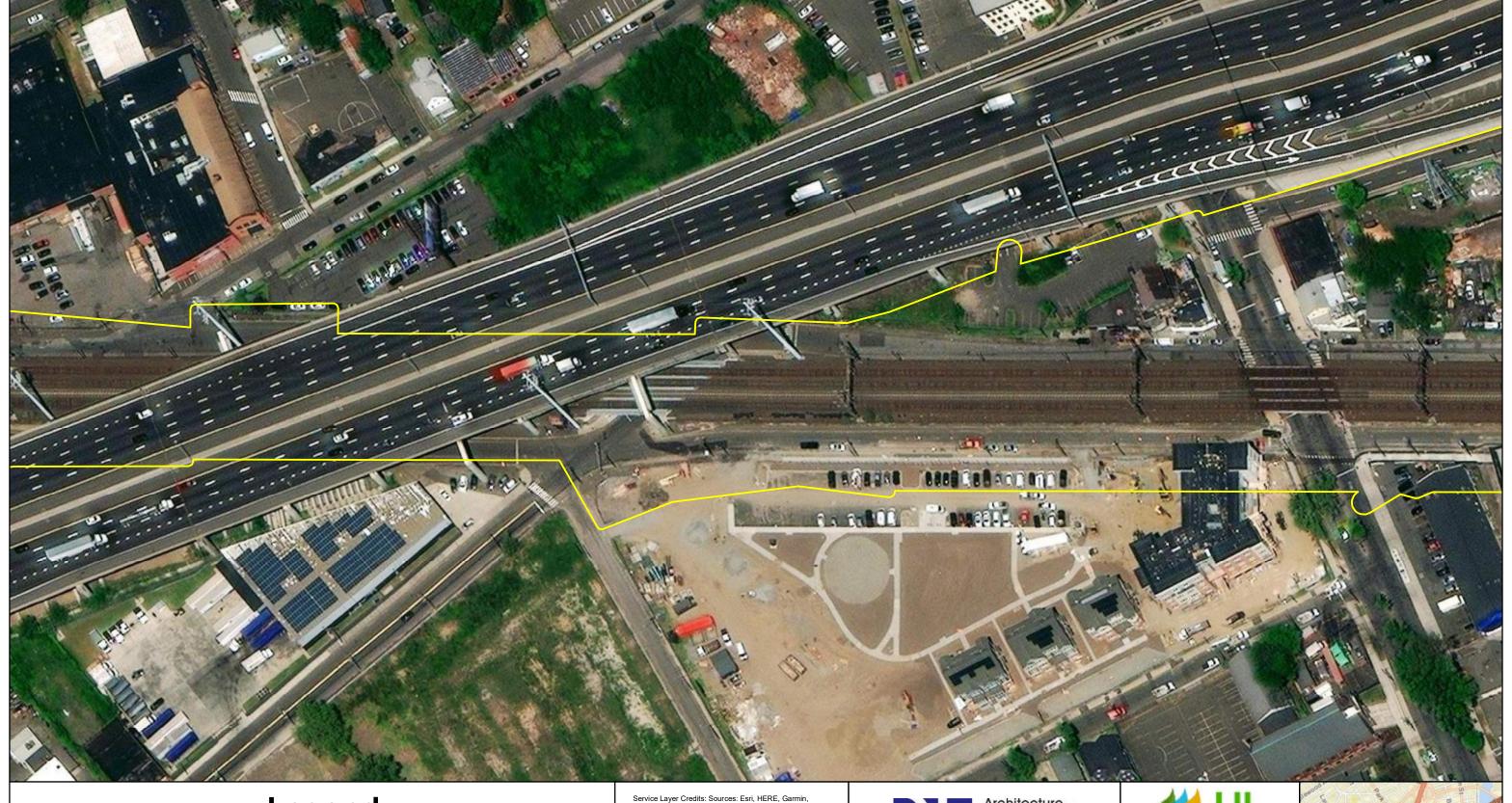


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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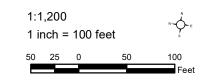
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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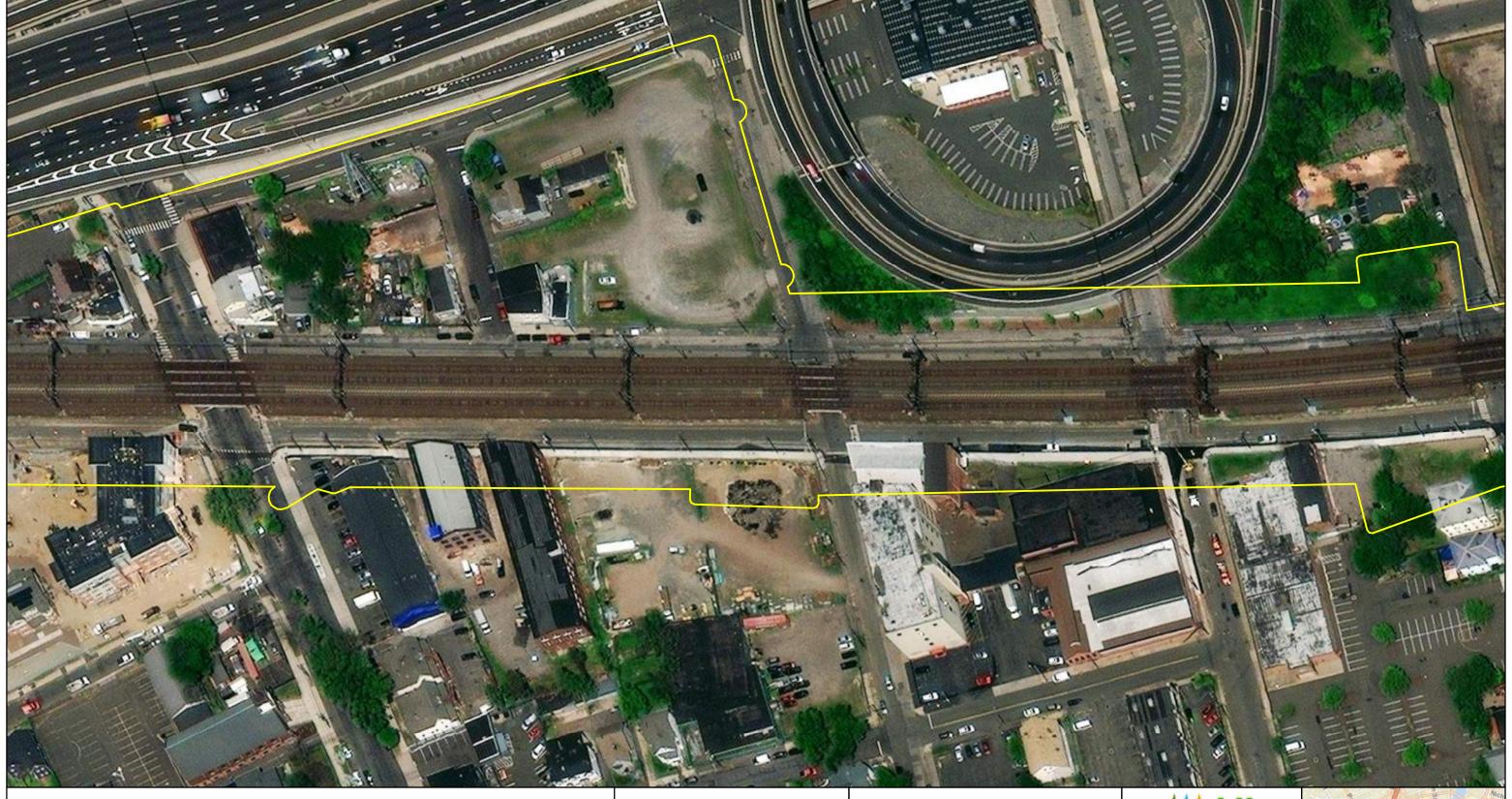
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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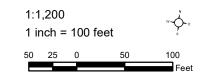


Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community





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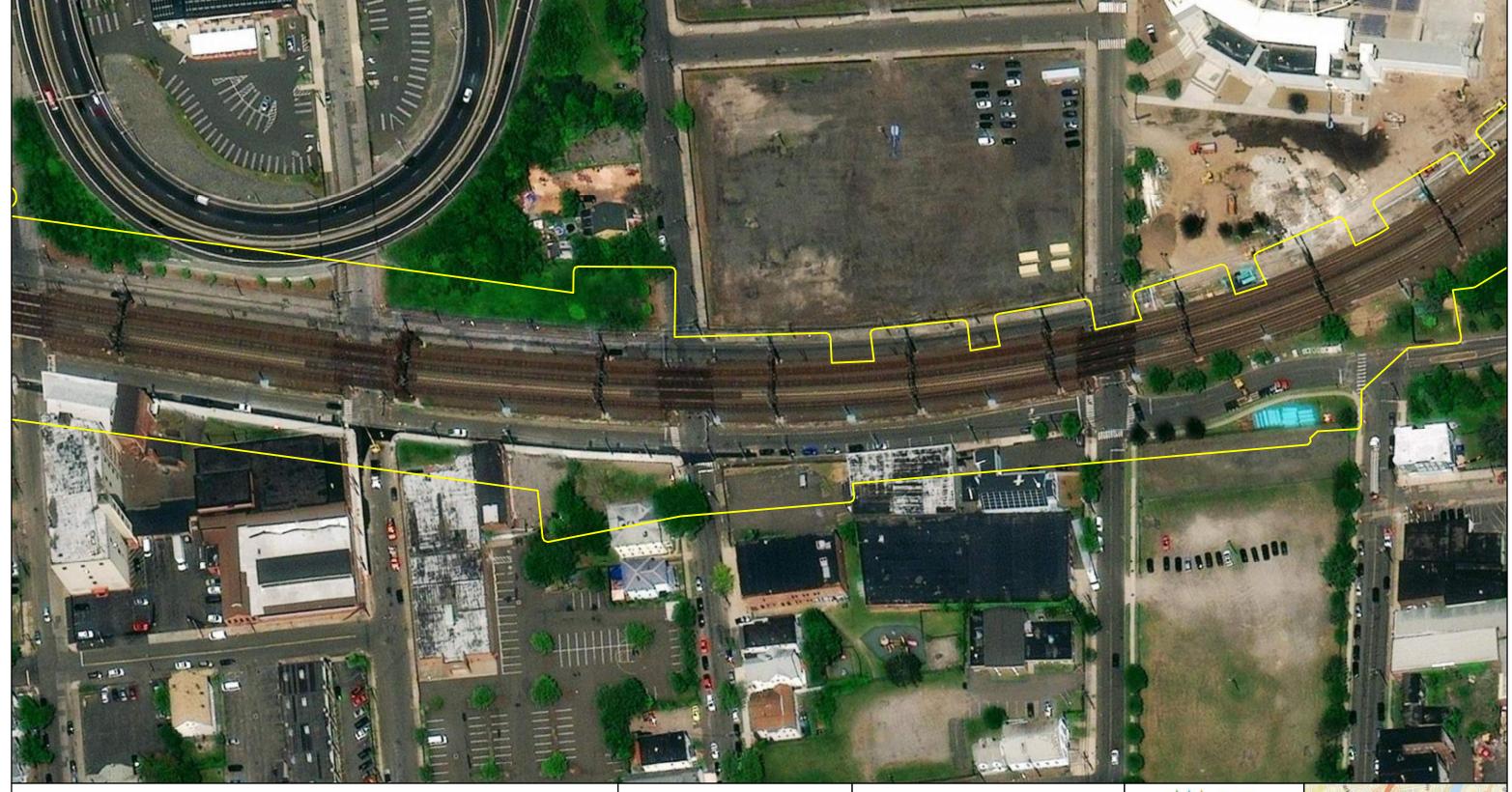


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

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Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

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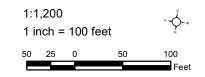
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

Community
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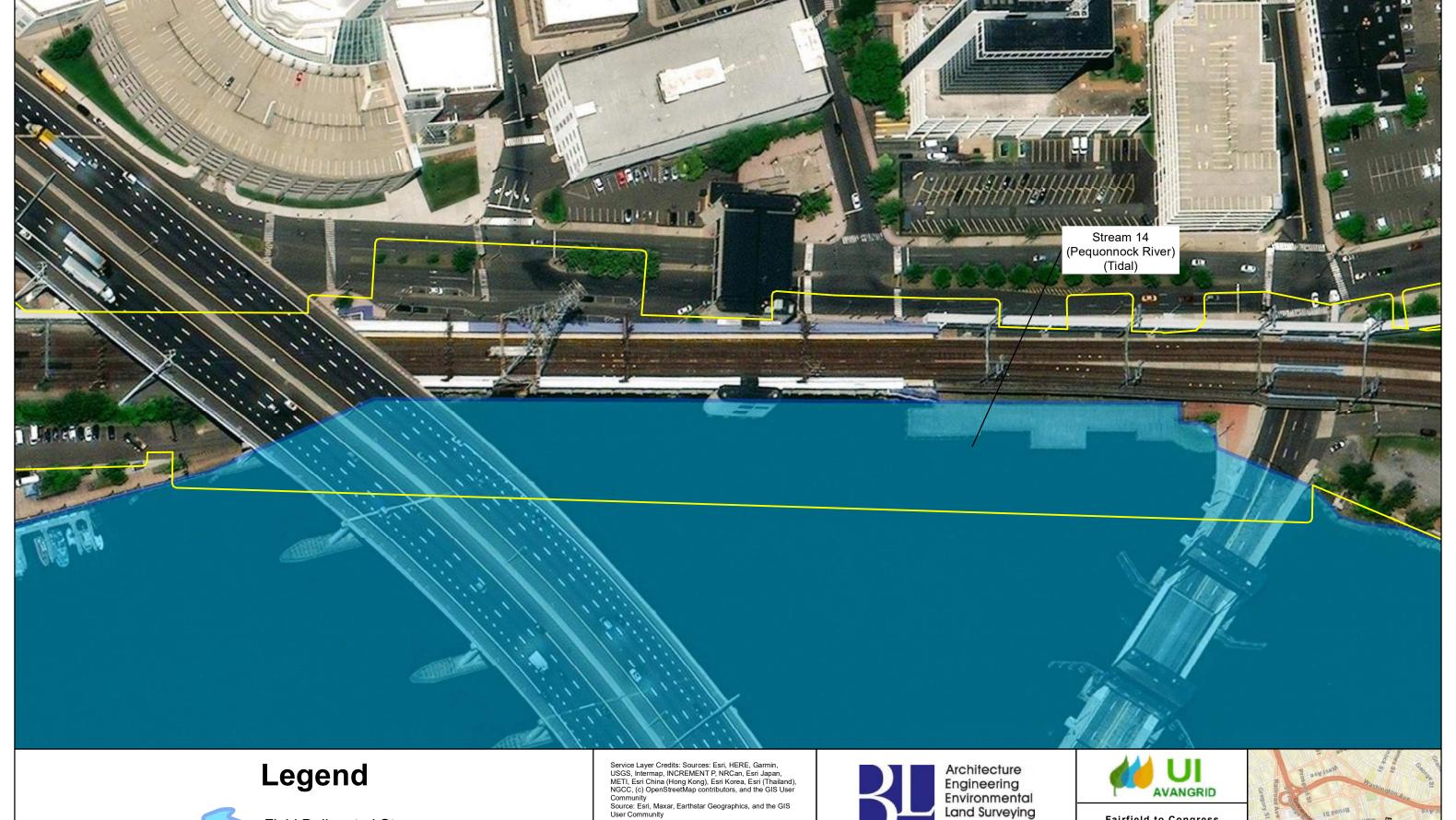


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

APPENDIX C SHEET NUMBER:

DATE: 8/30/2022 PRJ NUM: 2102261



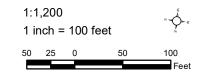




Field Delineated Stream

Field Delineated Wetland

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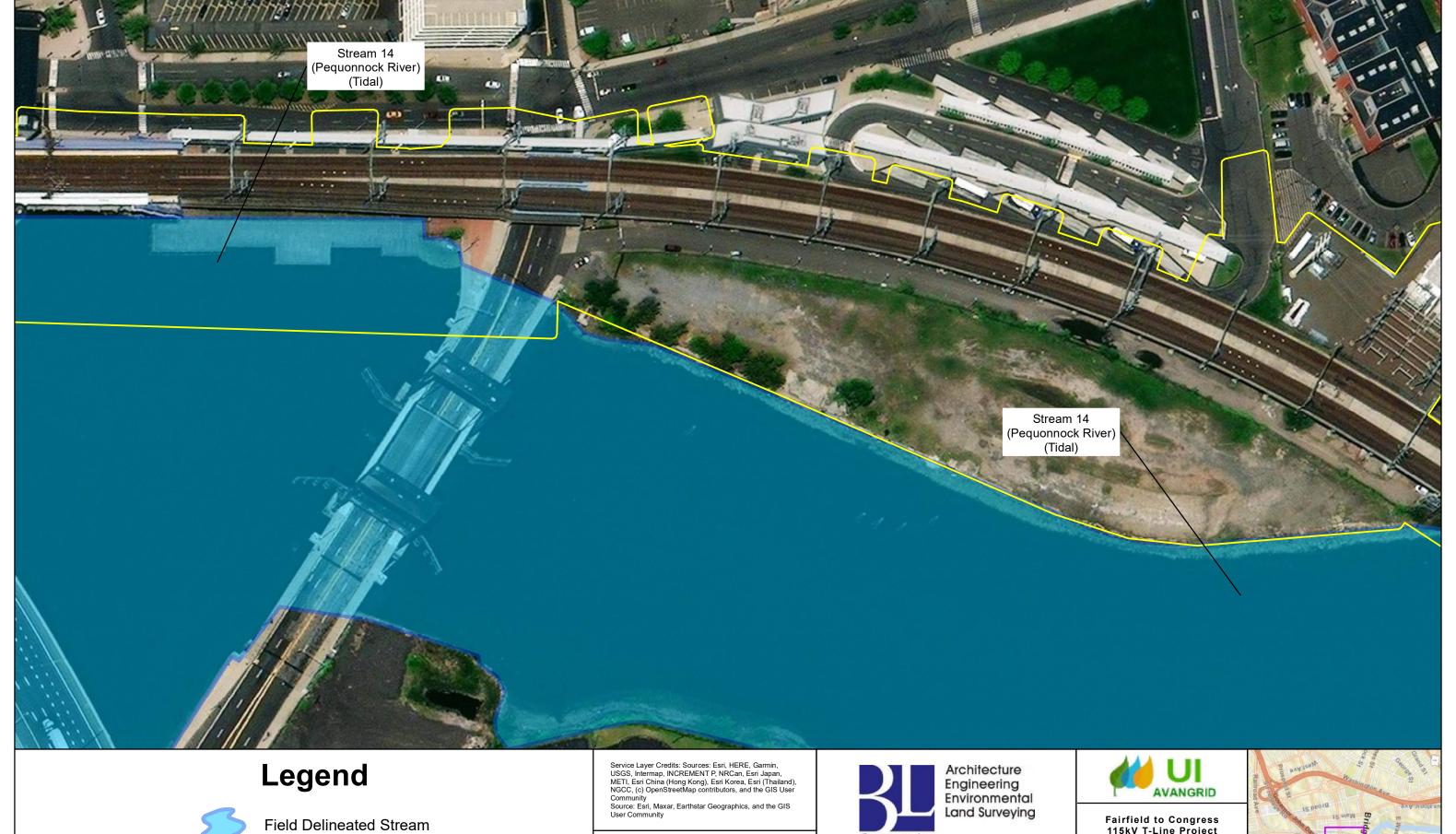
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PRJ NUM: 2102261

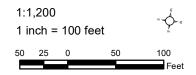
APPENDIX C SHEET NUMBER: 37 OF 39





Field Delineated Wetland

Continuous Feature





APPROVED BY: WGW DRAWN BY: SMS DATE: 8/30/2022

Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 38 OF 39







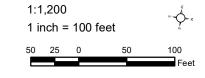
Field Delineated Stream

Field Delineated Wetland

Continuous Feature

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Community Source: Esri, Maxar, Earthstar Geographics, and the GIS





Engineering Environmental Land Surveying

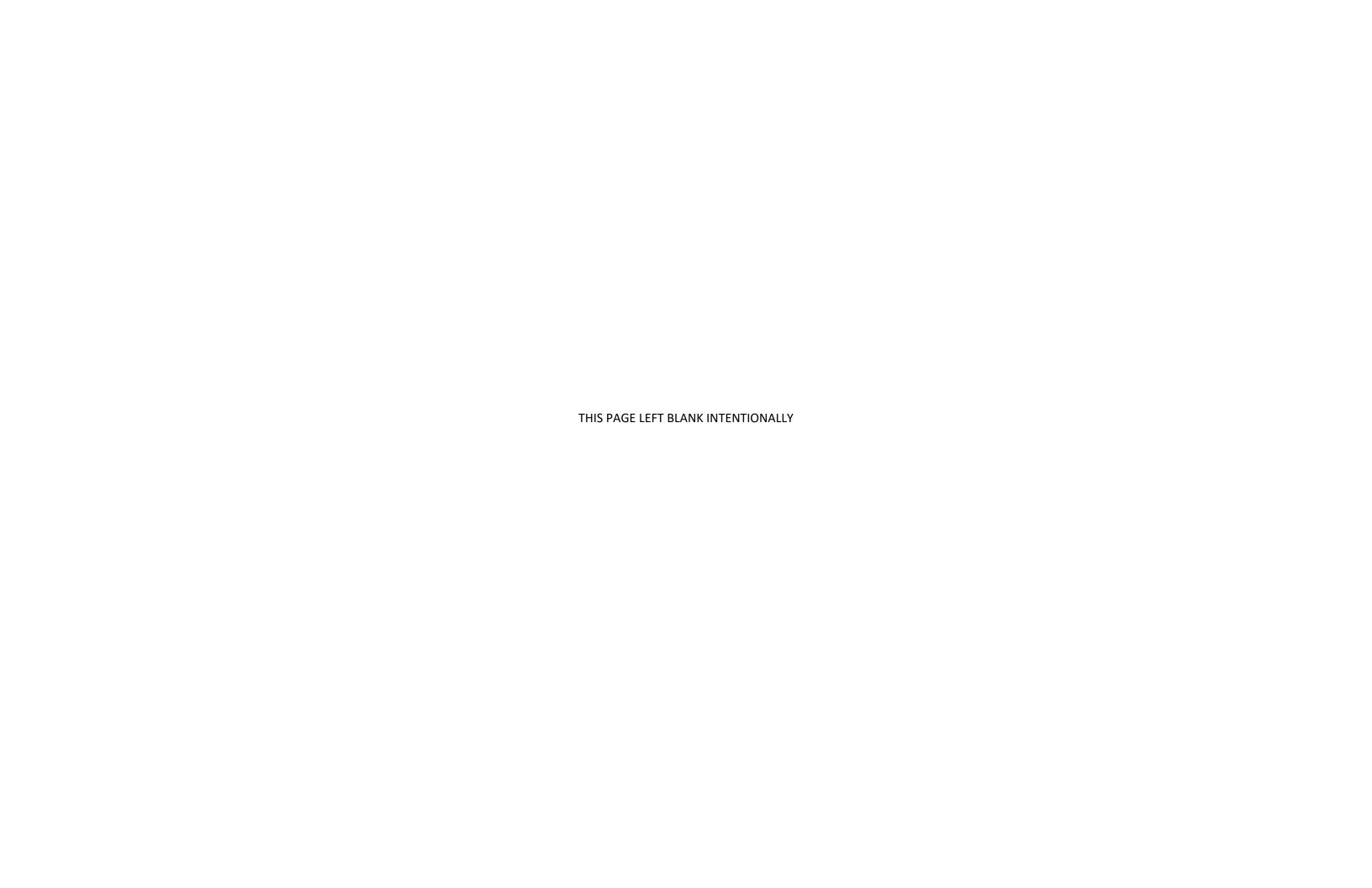
DRAWN BY: SMS APPROVED BY: WGW DATE: 8/30/2022 Version: Version 3



Fairfield to Congress 115kV T-Line Project Fairfield County, CT Water Resources Delineation Map

PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 39 OF 39



APPENDIX: D Photographic Documentation	





Architecture Engineering Environmental Land Surveying

Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo #1

Date: April 17, 2019
Direction: East

Description ern view of Tid

Eastern view of Tidal Wetland A along the southern side of the railroad. Tidal Wetland A is a coastal wetland area within the tidal flats of Sasco Creek (Tidal). This feature is part of Complex A and is located west of the Fairfield-Congress Project Start Location.

Photograph was taken outside of the Project Area and in areas not crossed by the project.



Photo #2

Date: April 17, 2019 **Direction:** West

Description

Western view of Tidal Wetland A along the northern side of the railroad. Tidal Wetland A is a coastal wetland area within the tidal flats of Sasco Creek (Tidal). This feature is part of Complex A and is located west of the Fairfield-Congress Project Start Location.

Photograph was taken outside of the Project Area and in areas not crossed by the project.





Architecture Engineering Environmental Land Surveying

Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo #3

Date: April 16, 2019 **Direction:** North

Description

Northern view of Stream 1, Sasco Creek (Tidal), on the southern side of the railroad. Sasco Creek is part of Complex A and is located west of the Fairfield-Congress Project Start Location.

Photograph was taken outside of the Project Area and in areas not crossed by the project.



Photo #4

Date: April 16, 2019 **Direction:** Southwest

Description

Southwestern view of Stream 1, Sasco Creek (Tidal), on the southern side of the railroad. Sasco Creek (Tidal) is part of Complex A and is located west of the Fairfield-Congress Project Start Location.

Photograph was taken outside of the Project Area and in areas not crossed by the project.





Photo #5

Date: April 16, 2019 **Direction:** Southwest

Description

Southwestern view of Stream 1, Sasco Creek (Tidal), on the northern side of the railroad. Sasco Creek (Tidal) is part of Complex A and is located west of the Fairfield-Congress Project Start Location.

Photograph was taken outside of the Project Area and in areas not crossed by the project.



Photo #6

Date: April 4, 2022 Direction: West

Description

Western view of Wetland B, which is part of Complex B.





Photo #7

Date: April 4, 2022 **Direction:** East

Description

Eastern view towards Stream 2, as part of Complex B.



Photo #8

Date: April 4, 2022 **Direction:** East

Description

Eastern view towards Stream 3, as part of Complex C.





Architecture Engineering Environmental Land Surveying

Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo #9

Date: April 4, 2022 **Direction:** West

Description

Western view towards Stream 3, as part of Complex C.



Photo # 10

Date: April 18, 2019 **Direction:** East

Description

Eastern view of Stream 4, which is channelized in concrete throughout the area delineated and runs parallel to the southern edge of the railroad. Feature is part of Complex C.





Photo # 11

Date: April 23, 2019 **Direction:** North

Description

Northern view of Stream 5, as part of Complex C.



Photo #12

Date: April 4, 2022 **Direction:** Northeast

Description

Northeastern view of Wetland C, which is part of Complex C.





Photo # 13

Date: April 23, 2019 **Direction:** South

Description

Southern view towards Wetland D, as part of Complex D.



Photo #14

Date: April 23, 2019 **Direction:** Northeast

Description

Northeast view of Stream 6, Mill River, which is part of Complex D.





Photo # 15

Date: April 17, 2019 **Direction:** North

Description

Northern view towards Wetland E, as part of Complex E.



Photo # 16

Date: April 4, 2022 **Direction:** East

Description

Eastern view of Wetland F, which is part of Complex E.





Photo # 17

Date: April 5, 2022 **Direction:** West

Description

Western view towards Wetland F, as part of Complex E.



Photo # 18

Date: April 4, 2022 **Direction:** East

Description

Eastern view of Stream 7, which is part of Complex F.





Architecture Engineering Environmental Land Surveying

Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo # 19

Date: May 3, 2019 **Direction:** Northeast

Description

Northeastern of Stream 8. This watercourse is lined with concrete throughout the project area. This feature is part of Complex F.



Photo #20

Date: May 3, 2019 **Direction:** East

Description

Eastern view of Stream 9, a perennial stream adjoining Wetland G. This feature is part of Complex F.





Photo # 21

Date: April 19, 2019 **Direction:** Southwest

Description

Southwestern view of Wetland G, which is part of Complex F.



Photo # 22

Date: April 5, 2022 **Direction:** South

Description

Southern view of Wetland H, which is part of Complex G.





Photo #23

Date: April 5, 2022 **Direction:** North

Description

Northern view of Wetland H, which is part of Complex G.



Photo # 24

Date: April 19, 2019 **Direction:** South

Description

Southern view of Tidal Wetland I, which is part of Complex G.





Architecture Engineering Environmental Land Surveying

Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo #25

Date: April 19, 2019 **Direction:** Southeast

Description

Southeastern view of the northeastern portion of Stream 10, which receives hydrology during storm events and conveys such to the conservation area to the south of the railroad and then on to Ash Creek (Tidal) (Stream 13). Stream 10 is partially tidally influenced and part of Complex G.



Photo #26

Date: April 19, 2019 **Direction:** South

Description

Southern view of Tidal Watercourse 11 which receives hydrology during storm events and conveys such to Ash Creek (Tidal) (Stream 13). Tidal Watercourse 11 is partially tidally influenced and part of Complex G.



BL Companies



Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo # 27

Date: April 5, 2022 **Direction:** South

Description

Southern view of Tidal Watercourse 12, which is part of Complex G.



Photo # 28

Date: April 5, 2022 **Direction:** South

Description

Southern view of the western portion of Stream 13, Ash Creek (Tidal). This portion of Stream 13 is part of Complex G.



BL Companies



Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo # 29

Date: April 19, 2019 **Direction:** Northwest

Description

Northwestern view of the eastern portion of Stream 13, Ash Creek (Tidal). This portion of Stream 13 is part of Complex H.



Photo #30

Date: April 5, 2022 **Direction:** East

Description

Eastern view of Tidal Wetland J, which is part of Complex H.





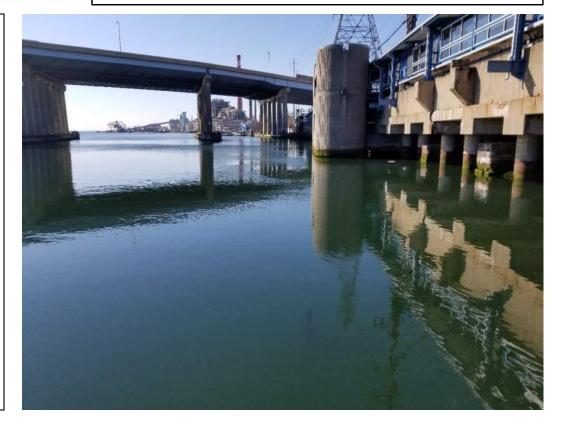
Fairfield to Congress - 115kV T-Line Photographic Documentation

Photo #31

Date: April 30, 2019 **Direction:** South

Description

Southern view of Stream 14, Pequannock River (Tidal), which comprises Complex I.



APPENDIX: E Wetland	d Data Sheets	



Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/16/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 1
Investigator(s): TS	Section, Township, Range:
Landform (hillside, terrace, etc.): tidal flat Local r	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 41.130088	Long: -73.296775 Datum: NAD 83
Soil Map Unit Name: (306) Udortents-Urban Land Complex	NWI classification: E2EM5
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly disturb	<u> </u>
Are Vegetation N, Soil N, or Hydrology N naturally problema	
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Tidal Wetland A
The incoming tide and substrate made this area largely unsafe for sampling southern side of the railroad. These are coastal areas that are tidally influen Phragmites. Wetland/non-wetland interface is abrupt as there is a significant	nced. The vegetation community is essentially a monocultural stand of
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor ((C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7)	
x Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	<u>. 4</u>
Water Table Present? Yes x No Depth (inches):	: 0
Saturation Present? Yes x No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks: Wetland hydrology observed; note, hydrology changes with the tides	

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test	t worksheet:			
1. Not applicable 2.				Number of Domir That Are OBL, FA			1	_(A)
3. I.				Total Number of Species Across A			1	_(B)
i				Percent of Domir That Are OBL, FA	•	10	00.0%	_ (A/E
	_			Prevalence Inde	x worksheet:			
		=Total Cover		Total % Co	ver of:	Mul	tiply by:	
Sapling/Shrub Stratum (Plot size:15)			OBL species	0	x 1 = _	0	
Not applicable	_			FACW species	100	x 2 = _	200	
	_			FAC species	0	x 3 = _	0	
·				FACU species	0	x 4 = _	0	
				UPL species	0	x 5 =	0	
				Column Totals:	100	(A)	200	(1
				Prevalenc	e Index = B/A	=	2.00	
				Hydrophytic Ve	getation Indica	ators:		
		=Total Cover		1 - Rapid Tes	st for Hydrophy	tic Veg	etation	
erb Stratum (Plot size: 5)				X 2 - Dominano	ce Test is >50%	6		
Phragmites australis	100	Yes	FACW	X 3 - Prevalence	ce Index is ≤3.0) ¹		
					gical Adaptatio marks or on a			
				Problematic	Hydrophytic Ve	egetatio	n¹ (Expla	ain)
·				¹ Indicators of hyd be present, unles				must
				Definitions of Vo	egetation Stra	ta:		
				Tree – Woody pla	,	,		heiat
n				diameter at breas	st fleight (DDH)	, regard	11033 OI I	leigi
1				Sapling/shrub – and greater than				ЭВН
2	100	=Total Cover		Herb – All herbad				ardle
Voody Vine Stratum (Plot size: 30)	- Total Gover		Woody vines – A				28 ft
Not applicable				height.	ui woody viilos	greate	i tilali o.	20 10
·								
				Hydrophytic Vegetation				
				Present?	Yes X	No		
		=Total Cover						

SOIL

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

Depth Matrix Redox Features

Depth Matrix	•	Features				,
(inches) Color (moist) %	Color (moist)	% T	ype ¹	Loc ²	Texture	Remarks
						_
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, M	IS=Masked	d Sand (Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil Indicators:					Indicators for	or Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Belov	w Surface ((S8) (LF	RR R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B))			Coast Pi	rairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa	ace (S9) (L	RR R, I	MLRA 1	49B)5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma S	ands (S11)) (LRR	K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky N	-		K , L)		k Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed	Matrix (F2))		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix					nt Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su					podic (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark	-	7)			ent Material (F21)
Sandy Redox (S5)	Redox Depress					allow Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) (LRI	R K, L)			Other (E	xplain in Remarks)
Dark Surface (S7)						
31 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
³ Indicators of hydrophytic vegetation and	wetland hydrology mu	st be prese	ent, unie	ess distu	irbed or problematic.	
Restrictive Layer (if observed):						
Type:						
Depth (inches):					Hydric Soil Presei	nt? Yes X No
Remarks:						
Did not sample soils in the field due to ha		owever, giv	en the l	hydrolog	ic regime, position in	the landscape, it is likely that hydric
soils indicators would have been observe	ed .					

City/County: Fairfield Co. Sampling Date: 4/16/2019
State: CT Sampling Point: 2
Section, Township, Range:
Local relief (concave, convex, none): none Slope %: 1
Long: -73.296420 Datum: NAD 83
NWI classification: Non-wetland
year? Yes x No (If no, explain in Remarks.)
y disturbed? Are "Normal Circumstances" present? Yes x No

roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Is the Sampled Area
within a Wetland? Yes No X
If yes, optional Wetland Site ID:
ort.) and sample point associated with Tidal Wetland A.
Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6)
eaves (B9) Drainage Patterns (B10)
Moss Trim Lines (B16)
15) Dry-Season Water Table (C2)
e Odor (C1) Crayfish Burrows (C8)
oheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
uced Iron (C4) Stunted or Stressed Plants (D1)
uction in Tilled Soils (C6) Geomorphic Position (D2)
ce (C7) Shallow Aquitard (D3)
Remarks) Microtopographic Relief (D4)
FAC-Neutral Test (D5)
nches):
nches):
nches): Wetland Hydrology Present? Yes No _ x
tos, previous inspections), if available:

Trace Otractions (Plateines 20	Absolute	Dominant	Indicator	Danis Tantanadahant		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:		
1. Acer rubrum	50	Yes	FAC	Number of Dominant Species		(.)
2. Quercus palustris	20	Yes	FACW	That Are OBL, FACW, or FAC:	2	_(A)
3. Quercus rubra	20	Yes	FACU	Total Number of Dominant	F	(D)
1.				Species Across All Strata:	5	_(B)
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	40.0%	(A/B)
7				Prevalence Index worksheet:	40.070	_(^(D)
<i></i>		=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)					1 = 0	
1. Berberis thunbergii	10	Yes	FACU		2 = 40	
2. Rosa rugosa	5	Yes	FACU	· —	3 = 150	
2				· —	4 = 140	
1				· —	5 = 0	
5.		· · · · · · · · · · · · · · · · · · ·		· —	A) 330	— (B)
6.				Prevalence Index = B/A =		— ` ′
7.				Hydrophytic Vegetation Indicat	tors:	
	15	=Total Cover		1 - Rapid Test for Hydrophyti	ic Vegetation	
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%		
1. Not applicable				3 - Prevalence Index is ≤3.0 ¹		
2.				4 - Morphological Adaptation	s¹ (Provide su	pporting
3				data in Remarks or on a s	eparate sheet))
4.				Problematic Hydrophytic Veg	getation ¹ (Expla	ain)
5				¹ Indicators of hydric soil and wetl	and hydrology	must
6				be present, unless disturbed or p		
7				Definitions of Vegetation Strata	a:	
8				Tree – Woody plants 3 in. (7.6 cr	n) or more in	
9.				diameter at breast height (DBH),	regardless of l	height.
10				Sapling/shrub – Woody plants le	ess than 3 in. [DBH
11				and greater than or equal to 3.28	ft (1 m) tall.	
12				Herb – All herbaceous (non-wood		ardless
		=Total Cover		of size, and woody plants less that	an 3.28 ft tall.	
Woody Vine Stratum (Plot size:30) 1. Not applicable				Woody vines – All woody vines on height.	greater than 3.	.28 ft in
2.				,		
3.				Hydrophytic		
4.				Vegetation Present? Yes	No	
		=Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic community as illustrated by results of Prevalence index. Some unidentifiable Carex specimens (due to time of year/lack of diagnostic structures) are throughout this area

Depth	ription: (Describe t Matrix	to the de		ument ti x Featur		itor or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	repeated refusal at 2"
								·
					' <u></u>			
					' <u></u>			
	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil								r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		k (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B	•	// DD D	MI DA 4		hirie Redox (A16) (LRR K, L, R)
Black Hi	suc (A3) n Sulfide (A4)		Thin Dark Surf		-			ky Peat or Peat (S3) (LRR K, L, R)
	l Layers (A5)		Loamy Mucky					Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed			(I(, L)		ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	, (, (, , ,)	Depleted Matri		/			Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			odic (TA6) (MLRA 144A, 145, 149B)
	Sleyed Matrix (S4)		Depleted Dark		-			nt Material (F21)
Sandy R	ledox (S5)		Redox Depress	sions (F	8)		Very Shal	low Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Ex	plain in Remarks)
Dark Su	rface (S7)							
3								
	, , ,		etland hydrology mu	ust be pr	esent, ur	niess disti	urbed or problematic.	
Type:	Layer (if observed): Roo							
•								
Depth (ii	ncnes):	2					Hydric Soil Present	:? Yes <u>No X</u>
Remarks:							0	
	as very госку (сіоѕег (could be too far sou		ia bea); experienced	rock re	rusai at a	depth of	2" at multiple locations.	Unclear if this is within our area of
gaue	(000.000.000.000	,						

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/4/2022
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 3
Investigator(s): SMS	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local re	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 41.13284	Long: -73.29126 Datum: NAD 83
Soil Map Unit Name: Scarboro muck, 0 to 3 percent slopes	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturb	ped? Are "Normal Circumstances" present? Yes x No
Are Vegetation N, Soil N, or Hydrology N naturally problemate	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland B
The change between wetland and non-wetland habitats is conspicuous in th taken within a PEM weltand habitat. While some forested habitat was preser coverage. This sample point represents Wetland B.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	39) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)X Hydrogen Sulfide Odor (0	C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres o	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in	• • • • • • • • • • • • • • • • • • • •
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	2
Water Table Present? Yes x No Depth (inches):	0
Saturation Present? Yes x No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks: Wetland hydrology indicators observed	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum 2.	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A
3. 4.				Total Number of Dominant Species Across All Strata: 2 (E
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A
7.				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)			OBL species 0 x 1 = 0
. Not applicable				FACW species 95 x 2 = 190
				FAC species 15 x 3 = 45
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 110 (A) 235
				Prevalence Index = B/A = 2.14
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
. Phragmites australis	95	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
	· ——		171011	4 - Morphological Adaptations ¹ (Provide suppo
				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
				
·				¹ Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
B				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3 in. DBI
1				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regard
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30)			Woody vines – All woody vines greater than 3.28
. Not applicable				height.
2				
i				Hydrophytic Vegetation
i.				Present? Yes X No
•		=Total Cover		

US Army Corps of Engineers

(inches)	Matrix		Redo	x Featur	es				
(11101169)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks
0-20	10YR 2/1	95	10YR 5/6	5	С	М	Mucky Loam/Clay	fibric	
,									
			_						
¹ Type: C=Co	oncentration, D=Deple	tion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	² Location: PL=Por	e Lining, M=Ma	trix.
Hydric Soil I	Indicators:						Indicators for Pro	_	
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		0) (LRR K, L, N	•
X Histic Ep			MLRA 149B	•				Redox (A16) (LR	· ·
Black His			Thin Dark Surf		-		· —	eat or Peat (S3)	
	n Sulfide (A4)		High Chroma S					w Surface (S8)	
	d Layers (A5) d Below Dark Surface	(A11)	Loamy Mucky Loamy Gleyed			Κ Κ, L)		ace (S9) (LRR I	N, L)) (LRR K, L, R)
	ark Surface (A12)	(A11)	Depleted Matri		12)				9) (MLRA 149B)
	lucky Mineral (S1)		X Redox Dark Su		6)			-	i4A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark		-		Red Parent Ma		, , , ,
	Redox (S5)		Redox Depress					Dark Surface (F2	22)
Stripped	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Explain	in Remarks)	
Dark Sur	rface (S7)								
•		on and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.		
Restrictive L	f hydrophytic vegetation Layer (if observed):								
Restrictive L	Layer (if observed):								
Restrictive I	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):		<u> </u>				Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No
Restrictive L Type: Depth (ir	Layer (if observed):						Hydric Soil Present?	Yes	No

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 3/29/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 4
Investigator(s): SMS	Section, Township, Range:
Landform (hillside, terrace, etc.): terrace Loca	I relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 41.14888	Long: -73.24934 Datum: NAD 83
Soil Map Unit Name: Udorthents-Urban Land Complex	NWI classification: Non-wetland
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
, ,	<u> </u>
Are Vegetation, Soil _N, or Hydrology _N_ significantly distu	
Are Vegetation N, Soil N, or Hydrology N naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No x	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
,	the field due to an abprupt change in elevation. This sample point is located
in an upland habitat and is on a terrace between Wetland B and a paved of	iriveway area.
HYDROLOGY	
	Cocondany Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves High Water Table (A2) Aquatic Fauna (B13)	(B9) Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3) Addatic Faula (B15) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Sediment Deposits (B2) Oxidized Rhizospheres	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction	<u>—</u>
Iron Deposits (B5) Thin Muck Surface (C7	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
	TAC-Neutral Test (D3)
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 _ x
(includes capillary fringe)	avieus incurational if available.
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
No signs of wetland hydrology observed	
The orgine of mediana hydrology excelled	

<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Not applicable	70 COVE	Species:	Status	Dominance rest worksheet.	
				Number of Dominant Species That Are OBL, FACW, or FAC: 0	(A)
					('')
				Total Number of Dominant Species Across All Strata: 3	(B)
					_(=)
).).				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0%	(A/B)
7.				Prevalence Index worksheet:	. (/
		=Total Cover		Total % Cover of: Multiply by:	
apling/Shrub Stratum (Plot size: 15)		-		OBL species 0 x 1 = 0	
. Rosa multiflora	10	Yes	FACU	FACW species 0 x 2 = 0	
Lonicera tatarica	10	Yes	FACU	FAC species 0 x 3 = 0	
				FACU species 25 x 4 = 100	
				UPL species 0 x 5 = 0	
				Column Totals: 25 (A) 100	— (B)
				Prevalence Index = B/A = 4.00	`
				Hydrophytic Vegetation Indicators:	
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
lerb Stratum (Plot size: 5)		-		2 - Dominance Test is >50%	
Tussilago farfara	5	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹	
				4 - Morphological Adaptations ¹ (Provide sup	portin
				data in Remarks or on a separate sheet)	
				Problematic Hydrophytic Vegetation ¹ (Expla	in)
				¹ Indicators of hydric soil and wetland hydrology i	muet
i				be present, unless disturbed or problematic.	Hust
·				Definitions of Vegetation Strata:	
·				Tree – Woody plants 3 in. (7.6 cm) or more in	
·				diameter at breast height (DBH), regardless of h	eight.
0				Sapling/shrub – Woody plants less than 3 in. D	вн
1				and greater than or equal to 3.28 ft (1 m) tall.	
2				Herb – All herbaceous (non-woody) plants, rega	ırdless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.	
Voody Vine Stratum (Plot size:30)				Woody vines – All woody vines greater than 3.2	28 ft in
Not applicable				height.	-0
·					
				Hydrophytic Vegetation	
·				Present? Yes No X	
		=Total Cover			

Profile Desc Depth	cription: (Describe to Matrix	to the de		ı ment th x Featur		tor or co	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-3	10YR 4/3	100						Silt loam;	gravelly
3-18	10YR 5/3	100						Silt loam;	gravelly
					_ _ _	<u></u>			
		_ _ _							
									_
¹ Type: C=Co	oncentration, D=Depl	letion, RM	I=Reduced Matrix, N	1S=Mas	ked Sand	l Grains.	² Location: Pl	L=Pore Lining, M=M	atrix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sun	(A1) bipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface ark Surface (A12) lucky Mineral (S1) sleyed Matrix (S4) ledox (S5) Matrix (S6) rface (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfi High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Bands (S Mineral (Matrix (x (F3) urface (F Surface sions (F8 R K, L)	(LRR R, 611) (LRF (F1) (LRF F2) (6) (F7)	, MLRA 1 R K, L) R K, L)	2 cm Muc Coast Pr 49B) 5 cm Muc Polyvalue Thin Dari Iron-Man Piedmon Mesic Sp Red Pare Very Sha	or Problematic Hyd ck (A10) (LRR K, L, rairie Redox (A16) (L cky Peat or Peat (S3 e Below Surface (S8 k Surface (S9) (LRR aganese Masses (F1 at Floodplain Soils (F podic (TA6) (MLRA ent Material (F21) allow Dark Surface (I xplain in Remarks)	MLRA 149B) RR K, L, R) B) (LRR K, L, R) C K, L) C K, L) C (LRR K, L, R) C (LRR K, L, R) MLRA 149B) MLRA 145, 149B)
	r nydropnytic vegetat Layer (if observed):		etland hydrology mu	ist be pr	esent, ur	iless disti	urbed or problematic.		
Type:	Roc								
Depth (ir	nches):	3					Hydric Soil Preser	nt? Yes	No X
Remarks: No hydric so	ils indicators observe	ed.							

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/23/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 5
Investigator(s): DK/JK	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local	relief (concave, convex, none): concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 41.139988	Long: -73.280395 Datum: NAD 83
Soil Map Unit Name: (306) Udorthents-Urban Land Complex	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly disturb	
Are Vegetation N , Soil N , or Hydrology N naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland C
Remarks: (Explain alternative procedures here or in a separate report.) No rain previous 48-hrs, air temp 50s F, breeze. This is a very narrow, lineal existing railroad corridor. This sample point represents Wetland C.	ar, emergent feature along the toe slope of the railroad tracks within an
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction ir	n Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<u> </u>
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	
Water Table Present? Yes x No Depth (inches):	
Saturation Present? Yes x No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology observed	
Welland Hydrology observed	

EGETATION – Use scientific names of p	Absolute	Dominant	Indicator		1 3	int:	5
ree Stratum (Plot size:30)	% Cover		Status	Dominance Test wo	orksheet:		
Not applicable		<u> </u>		Number of Dominant That Are OBL, FACV		1	(A)
		- <u></u>		Total Number of Don Species Across All S		1	(B)
				Percent of Dominant That Are OBL, FACV	•	100.0%	(A/E
	_			Prevalence Index w	orksheet:		
		=Total Cover		Total % Cover	of:	Multiply b	y:
apling/Shrub Stratum (Plot size: 15)			OBL species	70 x	1 =70)
Not applicable		_		FACW species	0 x	2 =0	
	_			FAC species	5 x	3 = 1	5
				FACU species	0 x	4 =0	
				UPL species	0 x	5 =0	
				Column Totals:	75 (A	A) 85	5 (E
				Prevalence In	dex = B/A =	1.13	3
				Hydrophytic Vegeta	tion Indicat	ors:	
		=Total Cover		1 - Rapid Test fo	r Hydrophyti	c Vegetatio	า
erb Stratum (Plot size: 5)		_		X 2 - Dominance T	est is >50%		
Glyceria striata	60	Yes	OBL	X 3 - Prevalence Ir	ndex is ≤3.0 ¹		
Alisma subcordatum	10	No	OBL	4 - Morphologica	I Adaptation	s ¹ (Provide	supporti
Equisetum arvense	5	No	FAC	data in Remar	ks or on a se	eparate she	et)
				Problematic Hyd	rophytic Veg	etation ¹ (Ex	plain)
				¹ Indicators of hydric s			gy must
	-	- ——		be present, unless di			
				Definitions of Veget	tation Strata	1:	
				Tree – Woody plants diameter at breast he			
·		<u> </u>		Sapling/shrub – Wo	, ,		
		=Total Cover		Herb – All herbaceou of size, and woody p			
oody Vine Stratum (Plot size: 30)	-		Maadu vinaa All v	roody vinos	araatar than	2 20 #
Not applicable				Woody vines – All w height.	oody vines (greater than	3.28 11 1
				Hydrophytic			
				Vegetation Ye	s X	No	
		=Total Cover					
	-	•					

4	C C	M	Texture Loamy/Clayey Loamy/Clayey		emarks	centrations
		_M				centrations
		M	Loamy/Clayey	Prominent rec	dox cond	centrations
			Loamyrolayey	T TOTTIME IT TEC	JON CONC	ZITUAUOIS
3=Maske	ked Sand	d Grains.		L=Pore Lining, M or Problematic H		
ands (S1 lineral (F Matrix (F2 (F3) face (F6) Surface (I ons (F8) & K, L)	(LRR R 11) (LRI (F1) (LRI (F2) 6) (F7) 3)	, MLRA 1 R K, L) R K, L)	2 cm Muc ? Coast Pra Polyvalue Thin Dark Iron-Man Piedmont Mesic Sp Red Pare Very Sha Other (Ex	ck (A10) (LRR K rairie Redox (A16 cky Peat or Peat e Below Surface k Surface (S9) (L ganese Masses at Floodplain Soils podic (TA6) (MLR ent Material (F21 allow Dark Surfac xplain in Remark	(S) (LRR I (S3) (LI (S8) (LI (S8) (LI LRR K, L (F12) (L SS (F19) (RA 144A) CE (F22)	RA 149B) K, L, R) RR K, L, R) RR K, L) -) RR K, L, R) MLRA 149B)
t be pres	esent, ur	nless dist	urbed or problematic.			
			Hydric Soil Presen	nt? Yes_	X	No

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/23/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 6
Investigator(s): DK/JK	Section, Township, Range:
Landform (hillside, terrace, etc.): hillside Local r	relief (concave, convex, none): none Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 41.139919	Long: -73.280827 Datum: NAD 83
Soil Map Unit Name: 306 Udorthents-Urban Land Complex	NWI classification: Non-wetland
	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturb	
Are Vegetation N, Soil N, or Hydrology N naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No x	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
No rain previous 48-hrs, cloudless sky, air temp 40s F, breeze. Upland Rep	resentative associated with Wetland C.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	
High Water Table (A2) Aquatic Fauna (B13) Aquatic Fauna (B15)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (Control of the Sediment Deposits (B2) Oxidized Rhizospheres of the Sediment Deposits (B2)	
Sediment Deposits (B2) Oxidized Rhizospheres of Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	<u> </u>
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No x Depth (inches):	
Water Table Present? Yes No x Depth (inches):	
Saturation Present? Yes No x Depth (inches):	
(includes capillary fringe)	<u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
No indications of Wetland hydrology observed	

EGETATION – Use scientific names of pla	Absolute	Dominant	Indicator			g Point:		
ree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test	t workshee	t:		
Not applicable				Number of Domir That Are OBL, FA			0	_(A)
				Total Number of Species Across A			1	_(B)
				Percent of Domir That Are OBL, FA			0.0%	_ (A/E
		<u> </u>		Prevalence Inde	x workshe	et:		
		=Total Cover		Total % Co	ver of:	Mu	ıltiply by:	
apling/Shrub Stratum (Plot size:)				OBL species	0	x 1 =	0	
Not applicable				FACW species	0	x 2 =	0	
				FAC species	10	x 3 =	30	
				FACU species	80	x 4 =	320	
				UPL species	5	x 5 =	25	
				Column Totals:	95	(A)	375	(E
				Prevalenc	e Index = E	3/A =	3.95	
				Hydrophytic Ve	getation Inc	dicators:		
		=Total Cover		1 - Rapid Tes	st for Hydro	phytic Ve	getation	
erb Stratum (Plot size: 5)		•		2 - Dominano	ce Test is >	50%		
Galium aparine	75	Yes	FACU	3 - Prevalenc	ce Index is	≤3.0 ¹		
Equisetum arvense	10	No	FAC	4 - Morpholo	gical Adapta	ations ¹ (P	rovide su	pporti
Cirsium vulgare	5	No	FACU	data in Re	marks or or	n a separa	ate sheet))
Stachys byzantina	5	No	UPL	Problematic	Hydrophytic	: Vegetati	on¹ (Expl	ain)
				¹ Indicators of hyd be present, unles	Iric soil and	wetland h	nydrology	-
				Definitions of Vo			mano.	
				Tree – Woody pla diameter at breas				heigh
). 				Sapling/shrub – and greater than	, ,			DBH
2.				Herb – All herbad	ceous (non-	woody) n	lants red	ardles
	95	=Total Cover		of size, and wood				ui uioc
Voody Vine Stratum (Plot size:) Not applicable				Woody vines – /	All woody vi	nes great	er than 3.	.28 ft i
				neight.				
				Hydrophytic				
				Vegetation Present?	Yes	No	X	
<u>-</u>		=Total Cover		i resent:				
		- Total Cover						

Profile Desc Depth	cription: (Describe to Matrix	to the de		ıment th x Featur		ator or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Rema	rks
0-3	10YR 3/3	100					Loamy/Clayey Silt loa	am
3-20	10YR 4/3	99	10YR 5/4	1	С	М	Loamy/Clayey	
								_
	-							
								_
	oncentration, D=Depl	letion, RN	1=Reduced Matrix, N	1S=Mas	ked San	d Grains.	² Location: PL=Pore Lining, M=Ma	•
Hydric Soil							Indicators for Problematic Hydr	
Histosol	` '		Polyvalue Belo		ce (S8) (LRR R,	2 cm Muck (A10) (LRR K, L,	•
	oipedon (A2) stic (A3)		MLRA 149B Thin Dark Surfa	•	(I DD D	MI DA 1	Coast Prairie Redox (A16) (LI 5 cm Mucky Peat or Peat (S3	· ·
	en Sulfide (A4)		High Chroma S		-		Polyvalue Below Surface (S8)	
	d Layers (A5)		Loamy Mucky				Thin Dark Surface (S9) (LRR	
	d Below Dark Surface	e (A11)	Loamy Gleyed			,	Iron-Manganese Masses (F12	•
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont Floodplain Soils (F	19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		-		Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)	
	Redox (S5) I Matrix (S6)		Redox Depress		8)		Very Shallow Dark Surface (F Other (Explain in Remarks)	-22)
	rface (S7)		Marl (F10) (LR	K K, L)			Other (Explain in Remarks)	
Bark ou	nace (Gr)							
³ Indicators o	f hydrophytic vegetat	ion and w	etland hydrology mu	ıst be pr	esent, ui	nless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Type:								
Depth (ii	nches):						Hydric Soil Present? Yes	No X
Remarks:								
The hydric s	oil criterion has not b	een met.						

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/16/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 7
Investigator(s): TS	Section, Township, Range:
Landform (hillside, terrace, etc.): tidal flat Local	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 41.141157	Long: -73.275716 Datum: NAD 83
Soil Map Unit Name: (306) Udortents-Urban Land Complex	NWI classification: E2EM5
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly distur	· · · · · · · · · · · · · · · · ·
Are Vegetation N, Soil N, or Hydrology N naturally problems SUMMARY OF FINDINGS – Attach site map showing sam	
Somman of Findings - Attach site map showing same	Thing point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID: Wetland D
wetland interface is abrupt as there is a significant change in elevation. Thi	community is essentially a monocultural stand of Phragmites. Wetland/non-is sample point represents Coastal Wetland D.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves ((B9) Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Irr	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7) Other (Figure in Personal (B7))	
x Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	rks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
	A FAC-Neutral Test (DD)
Field Observations: Surface Water Present? Yes x No Depth (inches)	. 4
Surface Water Present? Yes x No Depth (inches) Water Table Present? Yes x No Depth (inches)	
Saturation Present? Yes x No Depth (inches)	
(includes capillary fringe)	Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Wetland hydrology observed; note, hydrology changes with the tides	

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
ree Stratum (Plot size: 30) Not applicable	70 COVE	оресіез:	Otatus				
				Number of Dominant Species That Are OBL, FACW, or FAC:	:	1	_(A)
i				Total Number of Dominant Species Across All Strata:		1	_(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	: 10	00.0%	(A/B)
				Prevalence Index worksheet	:		_ `
		=Total Cover		Total % Cover of:	Mult	tiply by:	
apling/Shrub Stratum (Plot size: 15)		•		OBL species 0	x 1 =	0	
Not applicable				FACW species 100	x 2 =	200	
				FAC species 0	x 3 =	0	
·				FACU species 0	x 4 =	0	
_				UPL species 0	x 5 =	0	
_		·		Column Totals: 100	(A)	200	— (B
		·		Prevalence Index = B/A	_	2.00	(
				Hydrophytic Vegetation India		2.00	
		=Total Cover		1 - Rapid Test for Hydroph		etation	
erb Stratum (Plot size: 5)		- Total Cover		X 2 - Dominance Test is >50	-	Clation	
Phragmites australis	100	Vaa	EAC)A/	X 3 - Prevalence Index is ≤3.			
		Yes	FACW	4 - Morphological Adaptati		ovido ou	nnortin
		· <u></u>		data in Remarks or on a			
·				Problematic Hydrophytic V	egetation	n (Expl	aın)
·				¹ Indicators of hydric soil and w be present, unless disturbed or			must
				Definitions of Vegetation Str	ata:		
				Tree – Woody plants 3 in. (7.6 diameter at breast height (DBH			heiaht.
0.				Sapling/shrub – Woody plants	s less tha	an 3 in. [
1				and greater than or equal to 3.	28 π (1 n	n) tall.	
2		·		Herb - All herbaceous (non-wo			ardless
	100	=Total Cover		of size, and woody plants less	than 3.2	8 ft tall.	
Voody Vine Stratum (Plot size:)				Woody vines – All woody vine	es greate	r than 3.	.28 ft ir
Not applicable				height.			
<u></u>				Hydrophytia			
	-			Hydrophytic Vegetation			
				Present? Yes X	No		

SOIL

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

Depth Matrix Redox Features

(inches) Color (moist) % Type¹ Loc² Texture Remarks

Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
							-		
							-		
							-		
							-		
¹ Type: C=Co	ncentration, D=Deple	tion RM-	Reduced Matrix 1	MS=Mas	ked San	d Grains	² l ocation: ¹	PL=Pore Lining, M=Matrix.	
•		uon, rawi–	reduced Matrix, i	vio-ivias	Keu Sain	u Grairis.		for Problematic Hydric Soi	3.
Hydric Soil II			Daharahaa Bala	Of	(00) (
Histosol (· · ·	_	Polyvalue Beld		ce (S8) (LKK K,		uck (A10) (LRR K, L, MLRA	
	pedon (A2)		MLRA 149E	•				Prairie Redox (A16) (LRR K ,	-
Black His		_	Thin Dark Surf				9B)5 cm M	ucky Peat or Peat (S3) (LRF	R K, L, R)
Hydroger	n Sulfide (A4)	_	High Chroma	Sands (S	311) (LR	R K, L)	Polyval	ue Below Surface (S8) (LRR	R K, L)
Stratified	Layers (A5)	_	Loamy Mucky	Mineral	(F1) (LR	RK, L)	Thin Da	rk Surface (S9) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	l Matrix (F2)		Iron-Ma	nganese Masses (F12) (LR	R K, L, R)
Thick Da	rk Surface (A12)	_	Depleted Matr				Piedmo	nt Floodplain Soils (F19) (M	LRA 149B)
	ucky Mineral (S1)	_	Redox Dark S		6)			spodic (TA6) (MLRA 144A , 1	
	eyed Matrix (S4)	_	Depleted Dark		-			rent Material (F21)	, ,
Sandy Re		_	Redox Depres					nallow Dark Surface (F22)	
		_		-	0)				
	Matrix (S6)	_	Marl (F10) (LF	KK K, L)			Other (i	Explain in Remarks)	
Dark Surf	race (S7)								
2									
	hydrophytic vegetation	n and wet	tland hydrology m	ust be pr	esent, u	nless disturl	bed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches).						Hydric Soil Prese	nt? Yes X N	lo
								100 <u>//</u>	<u> </u>
Remarks:									
			dous conditions, h	nowever,	given th	e hydrologid	c regime, position in	the landscape, it is likely th	at hydric
soils indicator	s would have been o	bserved.							

City/County: Fairfield Co. Sampling Date: 4/16/2019
State: CT Sampling Point: 8
Section, Township, Range:
Local relief (concave, convex, none): none Slope %: 1
Long: -73.275812 Datum: NAD 83
NWI classification: Non-wetland
ear? Yes x No (If no, explain in Remarks.)
disturbed? Are "Normal Circumstances" present? Yes x No
blematic? (If needed, explain any answers in Remarks.)
sampling point locations, transects, important features, etc.
Is the Sampled Area
within a Wetland? Yes No X
If yes, optional Wetland Site ID:
rt.) d sample point associated with Wetland D, in an anthropogenic habitat.
Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6)
ves (B9) Drainage Patterns (B10)
3) Moss Trim Lines (B16)
Dry-Season Water Table (C2)
Odor (C1) Crayfish Burrows (C8)
eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
ced Iron (C4) Stunted or Stressed Plants (D1)
tion in Tilled Soils (C6) Geomorphic Position (D2)
(C7) <u>?</u> Shallow Aquitard (D3)
Remarks) Microtopographic Relief (D4)
FAC-Neutral Test (D5)
ches):
ches):
ches): Wetland Hydrology Present? Yes No _x
s, previous inspections), if available:

<u>Free Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksl	noot:	
	70 COVE	Species?	Status	Dominance rest works	ieet.	
Not applicable				Number of Dominant Spe That Are OBL, FACW, or		(A)
-				Total Number of Dominar Species Across All Strata		(B)
				Percent of Dominant Spe	cies	` `
				That Are OBL, FACW, or Prevalence Index works		(A/E
		=Total Cover		Total % Cover of:		dy by
apling/Shrub Stratum (Plot size: 15	`	- Total Covel				oly by:
Not applicable)			OBL species		
Not applicable				FACW species		
				FAC species		
				FACU species		
				UPL species	x 5 =	
				Column Totals:		(E
				Prevalence Index		
				Hydrophytic Vegetation		
		=Total Cover		1 - Rapid Test for Hy		ation
erb Stratum (Plot size: 5				2 - Dominance Test i		
Not applicable				3 - Prevalence Index		
				4 - Morphological Addata in Remarks o		
				Problematic Hydroph	ytic Vegetation ¹	(Explain)
·				¹ Indicators of hydric soil a be present, unless disturb		
				Definitions of Vegetatio	n Strata:	
·				Tree – Woody plants 3 in diameter at breast height		
0. 1.				Sapling/shrub – Woody and greater than or equal		
2		=Total Cover		Herb – All herbaceous (n of size, and woody plants		
Voody Vine Stratum (Plot size:30)			Woody vines – All wood		
Not applicable				height.		
·				Uvdranhviia		
				Hydrophytic Vegetation		
·				Present? Yes	No	
	:	=Total Cover				

		to the de				tor or co	onfirm the absence of	indicators.)
Depth	Matrix	0/		x Featur		1 - 2	T	Damarka
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/2	100					Loamy/Clayey	repeated refusal at 2"
							_	
							_	
¹ Type: C=Co	oncentration, D=Depl	letion, RN	/I=Reduced Matrix, N	//S=Mas	ked Sand	d Grains.	² Location: PL	L=Pore Lining, M=Matrix.
Hydric Soil			·					or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		, , ,			airie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-		•	e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					k Surface (S9) (LRR K, L)
	Below Dark Surface	e (A11)	Loamy Gleyed			,		ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	, ,	Depleted Matri		,			t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark St		- 6)			oodic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark		-			ent Material (F21)
Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Ex	xplain in Remarks)
Dark Sui	face (S7)		_					
³ Indicators of	hydrophytic vegetat	ion and w	vetland hydrology mi	ust be pr	esent, ur	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:	Roo	k						
Depth (ir	nches):	2					Hydric Soil Presen	nt? Yes No X
							•	
Remarks:	se very rocky (closer	to rail ros	ad had): evnerienced	l rock re	fucal at a	denth of	2" at multiple locations	s. Unclear if this is within our area of
	(could be too far sou		ad bed), experience	TOOK TO	iusai at a	deptil of	2 at multiple locations	s. Official if this is within our area of
3	,	,						

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/17/2019					
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 9					
Investigator(s): TS	Section, Township, Range:					
Landform (hillside, terrace, etc.): tidal flat Local r	relief (concave, convex, none): none Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 41.14887	Long: -73.24948 Datum: NAD 83					
Soil Map Unit Name:	NWI classification: PEM					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)					
Are Vegetation N , Soil N , or Hydrology N significantly disturb						
Are Vegetation N , Soil N , or Hydrology N naturally problema						
SUMMARY OF FINDINGS – Attach site map showing samp						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No No	If yes, optional Wetland Site ID: Wetland E					
The change between wetland and non-wetland habitats is conspicuous in the taken within a PEM weltand habitat. While some forested habitat was prese coverage. This sample point represents Wetland E.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) Water-Stained Leaves (E						
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)X Hydrogen Sulfide Odor (0						
Sediment Deposits (B2) Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4)Recent Iron Reduction in						
Iron Deposits (B5)Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes x No Depth (inches):	2					
Water Table Present? Yes x No Depth (inches):						
Saturation Present? Yes x No Depth (inches):	0 Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:					
Remarks:						
Conducted additional SP in an area that was not inundated; in that instance indicators observed	e, the soils are saturated at a depth of 2 inches. Wetland hydrology					

/EGETATION – Use scientific names of	Absolute	Dominant	Indicator	Sampling Point:	9	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:		
1. Acer rubrum 2.	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)	
3. 4.				Total Number of Dominant Species Across All Strata: 2	(B)	
5. 3.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0%	 % (A/E	
·				Prevalence Index worksheet:	`	
		=Total Cover		Total % Cover of: Multiply	by:	
Sapling/Shrub Stratum (Plot size: 15	_)			OBL species 0 x 1 =	0	
. Not applicable				FACW species 97 x 2 = 19	94	
-				FAC species 15 x 3 = 4	15	
				FACU species 0 x 4 =	0	
				UPL species 0 x 5 =	0	
				Column Totals: 112 (A) 2	39 (E	
-				Prevalence Index = B/A = 2.1	13	
				Hydrophytic Vegetation Indicators:		
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%		
Phragmites australis	97	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹		
				4 - Morphological Adaptations ¹ (Provide data in Remarks or on a separate she		
·				Problematic Hydrophytic Vegetation ¹ (E	Explain)	
5. 5.				¹ Indicators of hydric soil and wetland hydrole be present, unless disturbed or problematic.		
·				Definitions of Vegetation Strata:		
i i				Tree – Woody plants 3 in. (7.6 cm) or more diameter at breast height (DBH), regardless		
0. 1.				Sapling/shrub – Woody plants less than 3 i and greater than or equal to 3.28 ft (1 m) tal		
2.				Herb – All herbaceous (non-woody) plants,	rogardles	
	97	=Total Cover		of size, and woody plants less than 3.28 ft to		
Noody Vine Stratum (Plot size: 30	_)			Woody vines – All woody vines greater that height.	n 3.28 ft i	
3.				Hydrophytic Vegetation		
				Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a se	enarate sheet)			•		

Profile Desc Depth	cription: (Describe t Matrix	o the de		ı ment tl < Featur		tor or c	onfirm the absence of inc	licators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-16	10YR 2/1	98	10YR 4/6	2			Mucky Loam/Clay	fibric		
-										
						,				
¹ Type: C=C	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	IS=Mas	ked San	d Grains.	² Location: PL=P	ore Lining, M=Matrix.		
Hydric Soil								roblematic Hydric Soils ³ :		
Histosol			Polyvalue Belo		ce (S8) (LRR R,		A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B		. /I DD D	MIDA		e Redox (A16) (LRR K, L, R)		
	stic (A3) en Sulfide (A4)		Thin Dark Surfa		-			Peat or Peat (S3) (LRR K, L, R)		
	d Layers (A5)		Loamy Mucky I				Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)			
	d Below Dark Surface	(A11)	Loamy Gleyed			ix ix, ∟)		nese Masses (F12) (LRR K, L, R		
	ark Surface (A12)	, (, (, 1, 1,	Depleted Matrix		,			oodplain Soils (F19) (MLRA 149		
	Mucky Mineral (S1)		X Redox Dark Su		- 6)			c (TA6) (MLRA 144A, 145, 149E		
Sandy C	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)			
Sandy F	Redox (S5)		Redox Depress	ions (F	8)		Very Shallov	v Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Expla	in in Remarks)		
Dark Su	rface (S7)									
31	£					. 1	to orbital and a manage of a			
	f nydropnytic vegetati Layer (if observed):	on and v	vetiand nydrology mu	ist be pi	esent, ui	ness als	turbed or problematic.			
Type:	Layer (II observed).									
٠,	nohoo).						Under Cail Broads	Yes No		
Depth (i	ncnes).						Hydric Soil Present?	Yes No		
Remarks:	indicators observed									
r ryuric solis	indicators observed									

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/18/2019						
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 10						
Investigator(s): TS	Section, Township, Range:						
	cal relief (concave, convex, none): none Slope %: 0						
Subregion (LRR or MLRA): LRR R Lat: 41.14888	Long: -73.24934 Datum: NAD 83						
Soil Map Unit Name: Udorthents-Urban Land Complex	NWI classification: Non-wetland						
							
Are climatic / hydrologic conditions on the site typical for this time of year							
Are Vegetation N, Soil N, or Hydrology N significantly dis							
Are Vegetation N, Soil N, or Hydrology N naturally problem	ematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No x	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	in the field due to an abprupt change in elevation. This sample point is located						
in an upland habitat and is on a terrace between Wetland E and the ball	last toe slope.						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leave	<u> </u>						
High Water Table (A2) Aquatic Fauna (B13)							
Saturation (A3) Marl Deposits (B15)							
Water Marks (B1) Hydrogen Sulfide Od Outlineart Branching							
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced							
Algal Mat or Crust (B4) Recent Iron Reductio	• • • • • • • • • • • • • • • • • • • •						
Iron Deposits (B5) Thin Muck Surface (C							
Inundation Visible on Aerial Imagery (B7)Other (Explain in Rer							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No Depth (inche							
Water Table Present? Yes No Depth (inche							
Saturation Present? Yes No Depth (inche	es): Wetland Hydrology Present? Yes No _x						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:						
Remarks:							
No signs of wetland hydrology observed							
1							

EGETATION – Use scientific names of p	Absolute	Dominant	Indicator			-		
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test	worksheet:			
Not applicable				Number of Domin That Are OBL, FA		<u> </u>	1	_(A)
				Total Number of I Species Across A			3	_(B)
				Percent of Domin That Are OBL, FA		: <u>;</u>	33.3%	(A/E
				Prevalence Inde	x worksheet:	:		
		=Total Cover		Total % Cov	ver of:	Mu	ıltiply by:	
apling/Shrub Stratum (Plot size: 15)			OBL species	0	x 1 =	0	
Thuja occidentalis	10	Yes	FACW	FACW species	10	x 2 =	20	
Rosa multiflora	10	Yes	FACU	FAC species	0	x 3 =	0	
Lonicera tatarica	10	Yes	FACU	FACU species	22	x 4 =	88	
				UPL species	0	x 5 =	0	
				Column Totals:	32	(A)	108	(E
				Prevalence	e Index = B/A	۱ =	3.38	
		· <u> </u>		Hydrophytic Veg	etation Indic	cators:		
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegeta			getation	
erb Stratum (Plot size:5)				2 - Dominance Test is >50%				
Tussilago farfara	2	No	FACU	3 - Prevalenc	e Index is ≤3.	.0 ¹		
				4 - Morpholog	gical Adaptati marks or on a			
				Problematic I	Hydrophytic V	egetation	on ¹ (Expl	ain)
				¹ Indicators of hyd be present, unles				must
				Definitions of Ve	egetation Stra	ata:		
				Tree – Woody pla				heigh
).				Sapling/shrub – and greater than				DBH
2		=Total Cover		Herb – All herbac of size, and wood				ardles
oody Vine Stratum (Plot size: 30)			Woody vines – A	All woody vine	s areat	er than 3	28 ft
Not applicable				height.	ui woody viile	3 great	CI TIAII O	.20 10
				Hydrophytic Vegetation				
				Present?	Yes	No	Х	
		=Total Cover						

		to the de				tor or co	nfirm the absence of	f indicators.)		
Depth	Matrix			x Featur		. 2	- .	5		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-3	10YR 4/3	100						Silt loam; gravelly		
		·								
								_		
		·								
1Typo: C=C	oncentration, D=Depl	otion PA	4-Poducod Matrix N	19-Mac	kod Sano	Grains	² l ocation: P	L=Pore Lining, M=Matrix.		
Hydric Soil		elion, Kiv	i-Reduced Matrix, i	vio-ivias	keu Sanc	Giailis.		or Problematic Hydric Soils ³ :		
_			Polyvalue Belo	w Surfa	oo (S9) (I	DD D		ick (A10) (LRR K, L, MLRA 149B)		
Histosol	ipedon (A2)		MLRA 149B		ce (36) (I	-KK K,				
				•	\ (I DD D	MI DA 1		rairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surf		-			cky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)		
	Layers (A5)	(444)	Loamy Mucky			K K, L)		k Surface (S9) (LRR K, L)		
	Below Dark Surface	e (A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12)		Depleted Matri		-0)			nt Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)		Redox Dark Su		-			podic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)		
	edox (S5)		Redox Depres		8)			allow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (E	xplain in Remarks)		
Dark Sui	face (S7)									
3, ,,										
	hydrophytic vegetat		etiand nydrology mi	ust be pr	esent, ur	iless disti	irbed or problematic.			
	_ayer (if observed):									
Type:	Roc	K								
Depth (ir	nches):	3					Hydric Soil Presei	nt? Yes No_X_		
Remarks:										
No hydric so	ls indicators observe	d; due to	the location, essent	ially amo	ongst the	ballast of	the rail road bed, this	sample point was very gravelly and		
rock refusal v	was encountered at a	depth of	3 inches							

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/5/2022
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 11
Investigator(s): SMS	Section, Township, Range:
Landform (hillside, terrace, etc.): Toe Slope Local r	relief (concave, convex, none):) Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 41.148705	Long: -73.248897 Datum: NAD 83
Soil Map Unit Name: 307 - Urban Land	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly disturb	
Are Vegetation N , Soil N , or Hydrology N naturally problema	
SUMMARY OF FINDINGS – Attach site map showing samp	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland F
Remarks: (Explain alternative procedures here or in a separate report.)	ii yos, optional rrolland olio 12.
The change between wetland and non-wetland habitats is conspicuous in the surrounding uplands. This sampling point was taken within a PEM welta the shrubby statum did not equal or exceed 20% coverage. This sample point was taken within a PEM welta the shrubby statum did not equal or exceed 20% coverage. This sample point was taken within a PEM well as the shrubby statum did not equal or exceed 20% coverage.	and habitat. While some shrubby habitat was present, the percent cover of
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) X Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)Recent Iron Reduction in	
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	
Water Table Present? Yes x No Depth (inches):	
Saturation Present? Yes x No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Banasaka	
Remarks: Conducted additional SP in an area that was not inundated; in that instance indicators observed	e, the soils are saturated at a depth of 4 inches. Wetland hydrology

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test	worksheet	: :		
Not applicable 2.				Number of Domir That Are OBL, FA			1	(A)
3. 4.				Total Number of Species Across A			2	(B)
5. 6.				Percent of Domir That Are OBL, FA	•		50.0%	(A/E
7.				Prevalence Inde	x workshee	et:		
		=Total Cover		Total % Cov	ver of:	Mu	ıltiply by:	
Sapling/Shrub Stratum (Plot size: 15)			OBL species	0	x 1 =	0	
. Rosa multiflora	5	Yes	FACU	FACW species	97	x 2 =	194	
2.				FAC species	0	x 3 =	0	
				FACU species	5	x 4 =	20	
				UPL species	0	x 5 =	0	
				Column Totals:	102	(A)	214	(
				Prevalenc	e Index = B	•	2.10	`
				Hydrophytic Ve	getation Inc	licators:		_
		=Total Cover		1 - Rapid Tes	-		getation	
erb Stratum (Plot size: 5)				2 - Dominance Test is >50%				
Phragmites australis	97	Yes	FACW	X 3 - Prevalence				
				4 - Morpholo		ntions¹ (Pi		
·				Problematic	Hydrophytic	Vegetation	on ¹ (Expla	ain)
i i				¹ Indicators of hyd be present, unles				mus
				Definitions of Ve	egetation S	trata:		
				Tree – Woody pla				heiah
0.				Sapling/shrub – and greater than	Woody plar	nts less th	nan 3 in. [
1				and greater than	or equal to .	5.20 II (I	m) tan.	
2	97	=Total Cover		Herb – All herbad of size, and wood				ardle
Voody Vine Stratum (Plot size: 30 Not applicable	_)			Woody vines – A	All woody vir	nes great	er than 3.	.28 ft
<u> </u>								
i				Hydrophytic Vegetation				
· .				Present?	Yes X	No		
		=Total Cover				•		

Profile Des	cription: (Describe t Matrix	to the de	-	ument tl x Featur		ator or co	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Rema	arks
0-4	10YR 3/2	100						Mucky Sil	It Loam
4-19	10YR 5/2	90	10YR 5/6	10	С	М		Clay L	oam
<u> </u>	101110/2		10111 0/0	10		141		Oldy E	Sum
-									
	· 								
-									
-									
									_
	· 								
	oncentration, D=Depl	etion, RI	//≡Reduced Matrix, N	/IS=Mas	ked San	d Grains.		=Pore Lining, M=M	•
Hydric Soil			Daharahia Dala		(00) (r Problematic Hyd	
Histosol	(A1) pipedon (A2)		Polyvalue Belo		ice (58) (LKK K,		ck (A10) (LRR K, L, airie Redox (A16) (L	· ·
	istic (A3)		Thin Dark Surf	,) (I RR R	MIRA 1		cky Peat or Peat (S3	•
	en Sulfide (A4)		High Chroma S				· —	e Below Surface (S8	
	d Layers (A5)		Loamy Mucky					Surface (S9) (LRR	
	d Below Dark Surface	e (A11)	Loamy Gleyed			, ,		ganese Masses (F1	•
	ark Surface (A12)	,	X Depleted Matri		,			Floodplain Soils (F	
Sandy N	Mucky Mineral (S1)		Redox Dark Su	ırface (F	- 6)		Mesic Sp	odic (TA6) (MLRA 1	144A, 145, 149B)
Sandy 0	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)			nt Material (F21)	
	Redox (S5)		Redox Depress		8)			llow Dark Surface (F	F22)
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Ex	plain in Remarks)	
Dark Su	rface (S7)								
³ Indicators o	of hydrophytic vegetat	ion and v	vetland hydrology mi	ust be pr	resent ui	nless dist	urbed or problematic.		
	Layer (if observed):		rotana nyarology ma	лос во р	1000111, 01	nioco diot	arbod or problemade.		
Type:	,								
Depth (i	nches):						Hydric Soil Presen	t? Yes	No
Remarks:									
Hydric soils	indicators observed								

Project/Site: Fairfield to Cong	ress - 115kV T-Line	City/County:	Fairfield Co.	Sampling Date: <u>4/5/2022</u>				
Applicant/Owner: Avangric	d - United Illuminating	State: CT	Sampling Point: 12					
Investigator(s): SMS		Sec	ction, Township, Range:					
Landform (hillside, terrace, etc.): Hillslope	_	e, convex, none): Convex	Slope %: 3				
Subregion (LRR or MLRA): L	RR R Lat: 41.14	48914	Long: -73.248623	Datum: NAD 83				
Soil Map Unit Name: 307 - Ur			NWI classification:					
· · · · · · · · · · · · · · · · · · ·	ons on the site typical for this tir	me of year?	es x No (If no, e	explain in Remarks.)				
Are Vegetation N , Soil		-	are "Normal Circumstances" prese	,				
Are Vegetation N , Soil			f needed, explain any answers in					
			t locations, transects, im	portant features, etc.				
Hydrophytic Vegetation Prese	nt? Yes No	X Is the San	npled Area					
Hydric Soil Present?	Yes No		•	No X				
Wetland Hydrology Present?	Yes No		onal Wetland Site ID:					
g .	and non-wetland habitats is cor a hillslope between Wetland F a	•	o an abprupt change in elevation.	This sample point is located				
HYDROLOGY								
Wetland Hydrology Indicato	rs:		Secondary Indicators (r	minimum of two required)				
Primary Indicators (minimum of	of one is required; check all that	apply)	Surface Soil Crack	s (B6)				
Surface Water (A1)	Water-Stair	ned Leaves (B9)	Drainage Patterns	(B10)				
High Water Table (A2)	Aquatic Fa	una (B13)	Moss Trim Lines (E	Moss Trim Lines (B16)				
Saturation (A3)	Marl Depos	sits (B15)	Dry-Season Water	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen S	Sulfide Odor (C1)	Crayfish Burrows (Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized R	hizospheres on Living Roo	ts (C3) Saturation Visible o	on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of	of Reduced Iron (C4)	Stunted or Stresse	d Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron	n Reduction in Tilled Soils (C6) Geomorphic Position	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck	Surface (C7)	Shallow Aquitard ([03)				
Inundation Visible on Aeri		lain in Remarks)	Microtopographic F	` '				
Sparsely Vegetated Conc	ave Surface (B8)		FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present?	Yes No De	epth (inches):						
Water Table Present?	Yes No De	epth (inches):						
Saturation Present?	Yes No De	epth (inches):	Wetland Hydrology Present?	Yes Nox				
(includes capillary fringe)								
	am gauge, monitoring well, aeri	al photos, previous inspect	ions), if available:					
Remarks: No signs of wetland hydrology	observed							

EGETATION – Use scientific names of pla		Daminant	lu ali a a t a u	Sampling Point: 12			
ree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Not applicable				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)			
		- <u></u>		Total Number of Dominant Species Across All Strata: 5 (B)			
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/I			
				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
pling/Shrub Stratum (Plot size: 15)		_		OBL species 0 x 1 = 0			
Lonicera tatarica	10	Yes	FACU	FACW species 0 x 2 = 0			
Rosa multiflora	10	Yes	FACU	FAC species 0 x 3 = 0			
				FACU species 80 x 4 = 320			
				UPL species 25 x 5 = 125			
				Column Totals: 105 (A) 445 (
				Prevalence Index = B/A = 4.24			
				Hydrophytic Vegetation Indicators:			
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
rb Stratum (Plot size: 5)		_		2 - Dominance Test is >50%			
Tussilago farfara	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹			
Tussilago farfara Verbascum thapsus	5	No	UPL	4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)			
				Problematic Hydrophytic Vegetation ¹ (Explain)			
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
				Definitions of Vegetation Strata:			
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh			
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
		- 		Herb – All herbaceous (non-woody) plants, regardle			
oody Vine Stratum (Plot size: 30)	35	_=Total Cover		of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft			
Lonicera japonica	30	Yes	FACU	height.			
Celastrus orbiculatus	20	Yes	UPL				
				Hydrophytic Vegetation Present? YesNo_X_			
	50	=Total Cover					
	rate sheet.)						

	· ·	o the de				tor or co	onfirm the absence of ir	idicators.)	
Depth	Matrix			x Featur		. 2	- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100						Silt loam; gra	ivelly
3-18	10YR 5/3	100						Silt loam; gra	ivelly
	<u> </u>								
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	² Location: PL=	Pore Lining, M=Matri	X.
-							=		
					ce (S8) (I	₋RR R,			•
				•	(I RR R	MI RA 1			
					-		· —		•
									•
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manga	nese Masses (F12)	(LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19)	(MLRA 149B)
					•				A, 145, 149B)
	` '				8)			•	2)
			Mail (F10) (LR	K N, L)			Other (Exp	am in Remarks)	
Bank Gan	1400 (01)								
³ Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ust be pr	esent, ur	ıless dist	urbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):					Very Shallow Dark Surface (F22) Other (Explain in Remarks) nless disturbed or problematic.	No X		
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:									
No hydric soil	ls indicators observed	d.							

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 5/3/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 13
Investigator(s): TS	Section, Township, Range:
Landform (hillside, terrace, etc.): terrace, floodplain Local	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 41.15460	Long: -73.24330 Datum: NAD 83
Soil Map Unit Name: (306) Udorthents-Urban Land Complex	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly disturb	
Are Vegetation N , Soil N , or Hydrology N naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: Wetland G
	ail road ROW. This sample point represents the PEM portion of Wetland G.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (6)	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
x Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) X Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in	n Tilled Soils (C6) x Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	rks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	: 2_
Water Table Present? Yes X No Depth (inches):	: 0
Saturation Present? Yes X No Depth (inches):	: 10 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Wetland hydrology indicators observed. Inundated pockets throughout this	wetland area

VE	GETATION -	– Use so	ientific n	names o	f plants.			Sampling Point:		13
Tre	ee Stratum (Pl	ot size:	30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. 2.	Not applicable	•						Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)

Tree Stratum (Plot size)	% Cover	Species?	Status	Dominance res	t worksneet			
1. Not applicable				Number of Domi	nant Species	3		
2.				That Are OBL, F			1	(A)
3.				Total Number of	Dominant			
4				Species Across	All Strata:		1	(B)
5				Percent of Domi	nant Species	;		
6.				That Are OBL, F	•		00.0%	_(A/B)
7				Prevalence Inde	x workshee	et:		
		=Total Cover		Total % Co	ver of:	Mu	Iltiply by:	
Sapling/Shrub Stratum (Plot size:)				OBL species	0	x 1 =	0	
1. Not applicable				FACW species	123	x 2 =	246	
2.				FAC species	0	x 3 =	0	
3.				FACU species	5	x 4 =	20	
4.				UPL species	0	x 5 =	0	
5.				Column Totals:	128	(A)	266	— (B)
6.				Prevalenc	e Index = B	/A =	2.08	
7.				Hydrophytic Ve	getation Ind	licators:		
		=Total Cover		1 - Rapid Te	st for Hydrop	hytic Ve	getation	
Herb Stratum (Plot size: 5)				X 2 - Dominan	ce Test is >5	50%		
1. Phragmites australis	98	Yes	FACW	X 3 - Prevalen	ce Index is ≤	3.0 ¹		
2. Impatiens capensis	25	No	FACW	4 - Morpholo	gical Adapta	ıtions ¹ (Pı	rovide su	pporting
3. Lonicera japonica	5	No	FACU	data in Re	emarks or on	a separa	ate sheet))
4.				Problematic	Hydrophytic	Vegetation	on ¹ (Expl	ain)
5.				¹ Indicators of hyd	dria aail and s	watland h	v drologv	muet
6.				be present, unles				must
7.				Definitions of V	egetation Si	trata:		
8.				Tree – Woody pl	ante 2 in 7	6 cm) or	moro in	
9.				diameter at brea				height.
10.				Sapling/shrub -	Woody plan	sta laga th	on 2 in 1	חסר
11.				and greater than				ЛВП
12.				Llawb All banks				
	128	=Total Cover		Herb – All herba of size, and woo				ardiess
Woody Vine Stratum (Plot size: 30)								00 # :
Not applicable				Woody vines – height.	All woody vir	ies great	er inan 3.	.28 II IN
2.								
3.				Hydrophytic				
4.				Vegetation Present?	Yes X	No		
		=Total Cover				•		

Remarks: (Include photo numbers here or on a separate sheet.)

A Hydrophytic community as illustrated by results of analyses. Hydrophytic vegetation criteria has been met.

Depth	cription: (Describe to Matrix	o ine ae		ı ment t ı k Featuı		ator or C	onfirm the absence of i	muicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/1	67	5YR 4/6	33	RM	M	Mucky Loam/Clay	
	·							
								_
	·							_
1 _{Type: C=C}	oncentration, D=Deple	tion DA	4-Poducod Matrix N	19-1400	kod Son		² l coation: DL-	=Pore Lining, M=Matrix.
Hydric Soil		elion, Riv	/i-Reduced Matrix, N	15-IVIAS	keu Sand	u Grains.		r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I RR R		k (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		(00) (irie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa) (LRR R	. MLRA		ky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	d Layers (A5)		x Loamy Mucky I					Surface (S9) (LRR K, L)
	d Below Dark Surface	(A11)	Loamy Gleyed			, ,		ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	,	x Depleted Matrix		,			Floodplain Soils (F19) (MLRA 149B)
Sandy N	Mucky Mineral (S1)		Redox Dark Su	ırface (F	- 6)		Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy 0	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parer	nt Material (F21)
Sandy F	Redox (S5)		Redox Depress	sions (F	8)		Very Shall	low Dark Surface (F22)
Stripped	d Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Exp	plain in Remarks)
Dark Su	ırface (S7)							
	of hydrophytic vegetati	on and v	vetland hydrology mu	ıst be p	resent, ui	nless dist	turbed or problematic.	
	Layer (if observed):							
Type:								
Depth (i	nches):						Hydric Soil Present	? Yes <u>x</u> No
Remarks:							•	
Hydric soil in	ndicators have been m	net.						

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/19/2019
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 15
Investigator(s): TS	Section, Township, Range:
Landform (hillside, terrace, etc.): depression Local i	relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 41.14888	Long: -73.24934 Datum: NAD 83
Soil Map Unit Name: (306) Udorthents-Urban Land Complex	NWI classification: PEM/PSS
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly disturb	
Are Vegetation N , Soil N , or Hydrology N naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes x No	within a Wetland? Yes x No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland G
Remarks: (Explain alternative procedures here or in a separate report.) Depressional area, located north of the railroad tracks, within the railroad consample point represents the scrub-shrub portion of Wetland G.	orridor. This wetland continues outside of the corridor to the north. This
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of Parkers of Reduced Inc.	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Thin Muck Surface (C7)	· , · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) — Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
<u> </u>	A FAC-Neutral Test (D3)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	L vious inspections), if available:
σ	
Remarks:	_
Wetland hydrology indicators observed	

EGETATION – Use scientific names of p	Absolute	Dominant	Indicator		int: 15		
ree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test worksheet:			
Not applicable				Number of Dominant Species That Are OBL, FACW, or FAC:	2	_ (A)	
·				Total Number of Dominant Species Across All Strata:	2	_(B)	
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/E	
				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of:	Multiply by:		
apling/Shrub Stratum (Plot size: 15	_)			OBL species 48 x	1 = 48		
Alnus serrulata	33	Yes	OBL	FACW species 0 x	2 = 0		
				FAC species 0 x	3 = 0		
				FACU species 0 x	4 = 0		
				UPL species 0 x	5 = 0		
				Column Totals: 48 (A	A) 48	(1	
				Prevalence Index = B/A =	1.00		
				Hydrophytic Vegetation Indicat	tors:		
	33						
erb Stratum (Plot size: 5)		•		X 2 - Dominance Test is >50%			
Typha latifolia	15	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹			
				4 - Morphological Adaptation data in Remarks or on a se			
				Problematic Hydrophytic Veg	etation ¹ (Expl	ain)	
-				1.		•	
				¹ Indicators of hydric soil and wetle be present, unless disturbed or p		mus	
	_	. <u></u>		Definitions of Vegetation Strata	a:		
				Tree – Woody plants 3 in. (7.6 cm diameter at breast height (DBH),		heigh	
·				Sapling/shrub – Woody plants le and greater than or equal to 3.28		DBH	
		·		Herb – All herbaceous (non-wood		jardle	
	15	=Total Cover		of size, and woody plants less that	an 3.28 ft tall.		
oody Vine Stratum (Plot size: 30 Not applicable	_)			Woody vines – All woody vines of height.	greater than 3	.28 ft	
				Hydrophytic			
				Vegetation Present? Yes X	No		
		=Total Cover					

1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Thidicators: 1 Indicators for Problematic Hydric Solis*: 2 cm Muck (A10) (LRR K, L, R) 2 cm Muck (A10) (LRR K, L, R) 2 cm Muck (A10) (LRR K, L, R) 3 cm Mucky Peat or Peat (S) (LRR K, L, R) 4 Thin Dark Surface (S9) (LRR K, L) 5 cm Mucky Peat or Peat (S) (LRR K, L, R) 4 Thin Dark Surface (S9) (LRR K, L) 5 cm Mucky Peat or Peat (S) (LRR K, L, R) 4 Thin Dark Surface (S9) (LRR K, L, R) 4 Thin Dark Surface (S9) (LRR K, L, R) 5 cm Mucky Mineral (S1) 5 cm Mucky Mineral (S1) 6 Redox Dark Surface (F1) (LRR K, L) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 7 Thin Dark Surface (S9) (LRR K, L, R) 8 Thin Dark Surface (S9) (LRR K, L, R) 8 Thin Dark Surface (S9) (LRR K, L, R) 8 Thin Dark Surface (S9) (LRR K, L, R) 8 Thin Dark Surface (S9) (LRR K, L, R) 8 Thin Dark Surface (S9) (LRR K, L, R) 8 Thin Dark Surface (S9) (LRR K, L,	(inches)	Matrix Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Scoast Prairie Redox (A16) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149I) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:	0-6	10YR 4/1	97	10YR 4/6	3	С	М	Loamy/Clayey	Silt loam; gravelly
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149I (F10) (MLRA 149I (MLRA 149I (F10) (MLRA 149I (MLRA 14									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S5) Sandy Redox (S5) Aredox Depressions (F8) Marl (F10) (LRR K, L) Stripped Matrix (S6) Dark Surface (S7) Hidicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes x No Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 coast Prairie Redox (A10) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Formula High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149E) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR R, L) Depleted Below Dark Surface (S9) (LRR R, L) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) Indicators of Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) 7 coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L, R) Polyvalue Below (S9) (LRR K, L, R) For Mucky Peat or Peat (S3) (LRR K, L) For Mucky Peat or Peat (S3) (LRR K, L) For Mucky Mineral (P1) (LRR K, L) For Mucky Peat or Peat (S3) (LRR K,									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S6) Dark Surface (S7) All (F10) (LRR K, L) Bridicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes x No Remarks: Indicators for Problematic Hydric Soils ³ : 1 dicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 coast Prairie Redox (A10) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Dolyvalue Below Surface (S9) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Problematic (S9) (LRR K, L, R) Polyvalue Below (S9) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below (S9) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Mineral (P1) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or P									
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Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Frairie Redox (A16) (LRR K, L) Frairie Redox (
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Frairie Redox (A16) (LRR K, L) Frairie Redox (
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S6) Dark Surface (S7) All (F10) (LRR K, L) Bridicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes x No Remarks: Indicators for Problematic Hydric Soils ³ : 1 dicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 coast Prairie Redox (A10) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Dolyvalue Below Surface (S9) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Problematic (S9) (LRR K, L, R) Polyvalue Below (S9) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below (S9) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Mineral (P1) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L, R) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or Peat (S3) (LRR K, L) Form Mucky Peat or P									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S5) Sandy Redox (S5) Aredox Depressions (F8) Marl (F10) (LRR K, L) Stripped Matrix (S6) Dark Surface (S7) Hidicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes x No Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) 2 coast Prairie Redox (A10) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Formula High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149E) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Frairie Redox (A16) (LRR K, L) Frairie Redox (
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Frairie Redox (A16) (LRR K, L) Frairie Redox (
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, Histic Epipedon (A2) MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Frairie Redox (A16) (LRR K, L) Frairie Redox (
Histosol (A1)	Type: C=Co	oncentration, D=Deple	etion, RM	1=Reduced Matrix, N	IS=Mas	ked Sand	l Grains.	² Location: PL=	Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) MILRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) For Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Dark Surface (S7) And (F10) (LRR K, L) Dark Surface (S7) And (F10) (LRR K, L) Type: Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:	-			5 5.		(0.0) (•
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) x Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1491 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 1495 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.** **Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No **Remarks:**						ce (S8) (I	₋RR R,		
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R Thick Dark Surface (A12) x Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149E) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:				·		(I RR R	MI RA 1		
Stratified Layers (A5)						-		· —	
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149E) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Dark Surface (S7) Sandy Redox (S5) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:					-				
Thick Dark Surface (A12)			(A11)				, -,		
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149E Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No			()			- – ,			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks) Hydric Soil Present? Yes x No Remarks:						6)			
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:						-			
Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:									
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:	Stripped	Matrix (S6)		Marl (F10) (LRI	R K, L)			Other (Exp	olain in Remarks)
Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No	Dark Sur	face (S7)							
Restrictive Layer (if observed): Type: Rock Depth (inches): 6 Hydric Soil Present? Yes x No	3Indicators of	hvdrophytic vegetation	on and w	etland hvdrologv mu	st be pr	esent. ur	ıless distı	urbed or problematic.	
Depth (inches): 6 Hydric Soil Present? Yes x No Remarks:									
Remarks:	Type:	Rock	(
	Depth (in	nches):	6					Hydric Soil Present	? Yes <u>x</u> No
Note rock refusal at depth of 6 inches. However, hydric soil indicator has been met.	Remarks:								
	Note rock refu	usal at depth of 6 incl	nes. How	vever, hydric soil indi	cator ha	as been n	net.		

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/19/2019						
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 16						
Investigator(s): TS	Section, Township, Range: .						
• ()	elief (concave, convex, none): concave Slope %: 2						
Subregion (LRR or MLRA): LRR R Lat: 41.15548	Long: -73.24193 Datum: NAD 83						
Soil Map Unit Name: (306) Udorthents-Urban Land Complex	NWI classification: Non-wetland						
•							
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)						
Are Vegetation N, Soil N, or Hydrology N significantly disturbed	· — —						
Are Vegetation N, Soil N, or Hydrology N naturally problemati	ic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.						
Lhidranh, tia Vanatatian Presenta	la the Complet Area						
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No X No X	Is the Sampled Area within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No x	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)	,, -,						
A non-wetland sample point, upslope of the boundary of Wetland G. This SP	is within the rail road ROW. This area is not recently disturbed, though						
the soils don't appear to be native. In this instance, hydrology and vegetation	will be the diagnostic traits.						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (B9							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (C							
Sediment Deposits (B2) Oxidized Rhizospheres or							
Drift Deposits (B3) Presence of Reduced Iror	· · · · · · · · · · · · · · · · · · ·						
Algal Mat or Crust (B4) Recent Iron Reduction in	· , · · · · · · · · · · · · · · · · ·						
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Other (Explaining Remarks)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No x Depth (inches):	<u></u>						
Water Table Present? Yes No x Depth (inches):							
Saturation Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes No x						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections) if available:						
Describe Recorded Data (stream gauge, monitoring well, aeriai priotos, prev	ous inspections), if available.						
Remarks:							
No wetland hydrology indicators observed							

ee Stratum (Plot size: 30)	Absolute	Dominant	Indicator					
	% Cover	Species?	Status	Dominance Test	worksheet:			
Not applicable				Number of Domina That Are OBL, FA			0	_ (A)
	_			Total Number of D Species Across Al			3	_(B)
				Percent of Domina That Are OBL, FA	•		0.0%	(A/E
				Prevalence Index	worksheet:			
		=Total Cover		Total % Cov	er of:	Mu	Iltiply by:	
apling/Shrub Stratum (Plot size: 15)			OBL species	0	x 1 = _	0	
Rosa multiflora	10	Yes	FACU	FACW species	0	x 2 =	0	
Lonicera tatarica	5	Yes	FACU	FAC species	0	x 3 =	0	
				FACU species	23	x 4 =	92	
				UPL species	0	x 5 = _	0	
				Column Totals:	23	(A)	92	(E
				Prevalence	Index = B/A	. = <u> </u>	4.00	
				Hydrophytic Veg	etation Indic	ators:		
		=Total Cover		1 - Rapid Test	t for Hydroph	ytic Ve	getation	
erb Stratum (Plot size: 5)				2 - Dominance	e Test is >50°	%		
Galium aparine	8	Yes	FACU	3 - Prevalence	e Index is ≤3.	0 ¹		
				4 - Morpholog data in Ren	ical Adaptation narks or on a	-		
				Problematic H	lydrophytic V	egetatio	on ¹ (Expl	ain)
				¹ Indicators of hydr be present, unless				, must
	_			Definitions of Ve	getation Stra	ata:		
				Tree – Woody pla				heigh
				Sapling/shrub – V				DBH
				Herb – All herbace	eous (non-wo	n (vbo	ants red	ardle
	8	=Total Cover		of size, and woody				araio.
oody Vine Stratum (Plot size: 30 Not applicable				Woody vines – A height.	ll woody vine	s great	er than 3	.28 ft
				Hydrophytic Vegetation				
		· <u> </u>		_	Yes	No	Х	
		=Total Cover				_		

	•	to the de	•			tor or co	nfirm the absence of	indicators.)
Depth	Matrix	0/		x Featur		12	T	Damanda
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 2/1	100						Silt loam; gravelly
		' <u></u>			<u> </u>		_	
¹ Type: C=Co	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	//S=Mas	ked Sand	l Grains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Indicators fo	r Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	RR R,	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B	5)			Coast Pra	airie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R,	MLRA 1	49B) 5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) (LRF	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky			R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted	l Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (F2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	⁻ 6)		Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			nt Material (F21)
	edox (S5)		Redox Depres		8)			low Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (Ex	plain in Remarks)
Dark Sui	face (S7)							
3								
	hydrophytic vegetati		etland hydrology mi	ust be pr	esent, ur	iless disti	urbed or problematic.	
	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	t? Yes No X
Remarks:								
Note rock ref	usal at depth of 6 inc	hes; soils	s don't appear to be	in-situ. N	No hydric	soil indic	ators have been met.	

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/5/2022					
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 17					
Investigator(s): SMS	Section, Township, Range:					
Landform (hillside, terrace, etc.): Toe Slope Local r	relief (concave, convex, none):) Concave Slope %: 1					
Subregion (LRR or MLRA): LRR R Lat: 41.1576	Long: -73.236657 Datum: NAD 83					
Soil Map Unit Name: 308 - Udorthents, smoothed	NWI classification: PEM					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)					
Are Vegetation N, Soil N, or Hydrology N significantly disturb						
Are Vegetation N, Soil N, or Hydrology N naturally problema						
SUMMARY OF FINDINGS – Attach site map showing samp	oling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland H					
Remarks: (Explain alternative procedures here or in a separate report.) This wetland area is comprised of a conservation area, which includes uplar of this wetland that are located along the upper banks of Ash Creek are tida	•					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) Water-Stained Leaves (B	Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (C						
Sediment Deposits (B2) Oxidized Rhizospheres o						
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Deposits (B5) Other (Explain in Remarks) Microtanggraphia Relief (D4)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes x No Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections) if available:					
Describe Necorded Data (Sileam gauge, monitoring well, acrial photos, pro-	vious inspections), ii avaliable.					
Remarks: Conducted additional SP in an area adjacent to the edge of open water area hydrology indicators observed	a; in that instance, the soils are saturated at a depth of 3 inches. Wetland					

VEGETATION – Use scientific names of plants	S.			Sampling Point:	17
Δ	healute	Dominant	Indicator		

<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Salix nigra	10	Yes	OBL	Number of Deminstrat Consist
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 5 (B)
5				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		•		OBL species 35 x 1 = 35
1. Salix nigra	5	Yes	OBL	FACW species 85 x 2 = 170
2. Salix discolor	5	Yes	FACW	FAC species 0 x 3 = 0
3.		· <u></u>		FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 120 (A) 205 (B)
6.				Prevalence Index = B/A = 1.71
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		•		X 2 - Dominance Test is >50%
1. Phragmites australis	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Typha angustifolia	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.		·		Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11			·	and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30)				Woody vines – All woody vines greater than 3.28 ft in
1. Not applicable				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover	(<u> </u>	
Remarks: (Include photo numbers here or on a separ	ate sheet.)	•		
Hydrophytic community as illustrated by results of ana	,			

Depth	cription: (Describe t Matrix	to the dep		x Featur		itor or co	mirm the absence of in	uicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Rema	rks
0-3	10YR 2/1	100						Mucky Sil	t Loam
3-22	10YR 6/2	90	10YR 6/8	10	С			Clay L	nam
3-22	IUTR 0/2	90	IUTR 0/0			M -		Clay L	Jam
				<u> </u>	<u> </u>	:			
¹ Type: C=C Hydric Soil	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		Pore Lining, M=Ma Problematic Hydi	
Histosol Histic E Black H Hydroge Stratifie Deplete Thick D Sandy N Sandy C Sandy F Strippec Dark Su			Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Sands (S Mineral Matrix (x (F3) urface (F Surface sions (Fi R K, L)	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1/ R K, L) R K, L)	2 cm Muck Coast Prair Folyvalue E Thin Dark S Iron-Manga Piedmont F Mesic Spoo Red Parent Very Shallo Other (Expl	(A10) (LRR K, L, e Redox (A16) (L Peat or Peat (S3 elow Surface (S8 urface (S9) (LRR nese Masses (F1:	MLRA 149B) RR K, L, R)) (LRR K, L, R)) (LRR K, L) K, L) 2) (LRR K, L, R) 19) (MLRA 149B) 44A, 145, 149B)
	Layer (if observed):	ion and we	etiand nydrology mt	ist be pr	esent, ur	ness distu	rbed or problematic.		
Type:	_a, c. (o.c								
Depth (i	nches):						Hydric Soil Present?	Yes	No
Remarks: Hydric soils	indicators observed								

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/5/2022					
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 18					
Investigator(s): SMS	Section, Township, Range:					
- , ,	cal relief (concave, convex, none): Convex Slope %: 3					
Subregion (LRR or MLRA): LRR R Lat: 41.157754	Long: -73.236431 Datum: NAD 83					
Soil Map Unit Name: 308 - Udorthents, smoothed	NWI classification: Non-wetland					
-						
Are climatic / hydrologic conditions on the site typical for this time of year						
Are Vegetation N, Soil N, or Hydrology N significantly dis	· ——					
Are Vegetation N, Soil N, or Hydrology N naturally proble	ematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No x	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
The change between wetland and non-wetland habitats is conspicuous	in the field due to an abprupt change in elevation. This sample point is located					
in an upland habitat adjacent to Wetland H and is on a hillslope betweer	n Wetland J and the upland portion of the conservation area.					
HADBOLOGA						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leave	Surface Soil Cracks (B6) Drainage Patterns (R10)					
Surface Water (A1) Water-Stained Leave High Water Table (A2) Aquatic Fauna (B13)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)						
l —	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced						
Algal Mat or Crust (B4) Recent Iron Reductio	<u> </u>					
Iron Deposits (B5) Thin Muck Surface (C						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No Depth (inche	es):					
Water Table Present? Yes No Depth (inche	es):					
Saturation Present? Yes No Depth (inche	es): Wetland Hydrology Present? Yes No _x					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:					
Remarks:						
No signs of wetland hydrology observed						

	ants. Absolute	Dominant	Indicator			g Point:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test	t workshee	et:		
Not applicable 2.				Number of Domir That Are OBL, FA			0	_ (A)
3. 				Total Number of Species Across A			2	_(B)
i i				Percent of Domir That Are OBL, FA	•		0.0%	_ (A/E
, 				Prevalence Inde	x workshe	et:		
		=Total Cover		Total % Co	ver of:	Mu	Itiply by:	
Sapling/Shrub Stratum (Plot size:15)				OBL species	0	x 1 =	0	
. Not applicable				FACW species	0	x 2 =	0	
				FAC species	0	x 3 =	0	
	'			FACU species	55	x 4 =	220	
				UPL species	0	x 5 =	0	
				Column Totals:	55	(A)	220	(E
				Prevalenc	e Index = E	3/A =	4.00	
				Hydrophytic Ve	getation In	dicators:		
		=Total Cover		1 - Rapid Tes	st for Hydro	phytic Ve	getation	
erb Stratum (Plot size: 5)				2 - Dominano	ce Test is >	50%		
. Solidago canadensis	30	Yes	FACU	3 - Prevalenc				
Phleum pratense	20	Yes	FACU	4 - Morpholo			ovide su	pporti
Erigeron canadensis	5	No	FACU		marks or o			
				Problematic	Hydrophytic	: Vegetatio	on ¹ (Expla	ain)
· <u></u>				¹ Indicators of hyd be present, unles				must
				Definitions of Vo				
				Tree – Woody pla	ante 3 in 17	' 6 cm) or	more in	
				diameter at breas				heigh
0				Sapling/shrub –	Woodv pla	nts less th	nan 3 in. [DBH
1				and greater than				
2				Herb – All herba	ceous (non-	la (vboow-	ants. reg	ardles
	55	=Total Cover		of size, and wood				
Voody Vine Stratum (Plot size:)				Woody vines – A	All woodv vi	nes greate	er than 3.	.28 ft
Not applicable				height.				
·				1				
· <u></u>				Hydrophytic Vegetation				
· .				Present?	Yes	No	Χ	
		=Total Cover						

Profile Desc Depth	cription: (Describe	to the de		ument th x Featur		tor or co	onfirm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100						Silt Loam	1
3-20	10YR 5/4	100						Silt Loam	
<u> </u>	1011(3)4	100						Oilt Edain	_
	·								
¹ Type: C=C	oncentration, D=Dep	letion, RN	/=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix	Κ.
Hydric Soil							Indicators fo	or Problematic Hydric	Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,	2 cm Mu	ck (A10) (LRR K, L, ML	.RA 149B)
	pipedon (A2)		MLRA 149B	-				rairie Redox (A16) (LRR	•
	stic (A3)		Thin Dark Surf		-			cky Peat or Peat (S3) (L	-
	en Sulfide (A4) d Layers (A5)		High Chroma S Loamy Mucky					e Below Surface (S8) (L k Surface (S9) (LRR K ,	•
	d Below Dark Surface	e (A11)	Loamy Gleyed			、 		nganese Masses (F12) (•
	ark Surface (A12)	. ()	Depleted Matri		. –,			it Floodplain Soils (F19)	•
	Mucky Mineral (S1)		Redox Dark Su		6)			oodic (TA6) (MLRA 144	
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)			ent Material (F21)	
	Redox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)	
Dark Su	rface (S7)								
³ Indicators o	f hydrophytic vegetat	ion and w	vetland hvdrologv mu	ust be pr	esent. ur	nless dist	urbed or problematic.		
	Layer (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Preser	nt? Yes	No X
Remarks:									
No hydric so	ils indicators observe	ed.							

Project/Site: Fairfield to Congress - 115kV T-Line	City/County: Fairfield Co. Sampling Date: 4/5/2022
Applicant/Owner: Avangrid - United Illuminating	State: CT Sampling Point: 19
Investigator(s): SMS	Section, Township, Range:
Landform (hillside, terrace, etc.): Toe Slope Local r	relief (concave, convex, none):) Concave Slope %: 1
Subregion (LRR or MLRA): LRR R Lat: 41.165969	Long: -73.224807 Datum: NAD 83
Soil Map Unit Name: Water	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation N , Soil N , or Hydrology N significantly disturb	ped? Are "Normal Circumstances" present? Yes x No
Are Vegetation N , Soil N , or Hydrology N naturally problema	
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Tidal Wetland J
Remarks: (Explain alternative procedures here or in a separate report.) This wetland area is comprised of a tidally influenced area along Ash Creek	. This sample point represents Tidal Wetland J.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes x No Depth (inches):	4
Saturation Present? Yes x No Depth (inches):	2 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology indicators observed	

·	olants.			1	Sampling P	oint:	19	
ee Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w	orksheet:			
Not applicable				Number of Dominar That Are OBL, FAC			1	_(A)
				Total Number of Do Species Across All			1	_(B)
	_			Percent of Dominar That Are OBL, FAC	•	1	00.0%	(A/E
				Prevalence Index v	worksheet:			
		=Total Cover		Total % Cover	of:	Mu	Itiply by:	
pling/Shrub Stratum (Plot size: 15)	•		OBL species	0 :	x 1 =	0	
Not applicable	_			FACW species	100	x 2 =	200	
				FAC species	0 :	x 3 =	0	
				FACU species	0 :	x 4 =	0	
				UPL species	0 :	x 5 =	0	
				Column Totals:	100	(A)	200	(E
				Prevalence I	ndex = B/A	= -	2.00	
				Hydrophytic Veget	tation Indica	ators:		
		=Total Cover		X 1 - Rapid Test f	or Hydrophy	tic Ve	getation	
rb Stratum (Plot size:5)		!		X 2 - Dominance	Test is >50%	6		
Phragmites australis	100	Yes	FACW	X 3 - Prevalence	Index is ≤3.0) ¹		
				4 - Morphologio				
	_			Problematic Hy	drophytic Ve	getatio	on ¹ (Expl	ain)
				¹ Indicators of hydric be present, unless of				must
				Definitions of Vege	etation Stra	ta:		
	_			Tree – Woody plant diameter at breast h				heigh
	_			Sapling/shrub – W and greater than or				DBH
	_	=Total Cover		Herb – All herbaced of size, and woody				ardles
oody Vine Stratum (Plot size: 30)							
Not applicable	-' 			Woody vines – All height.	woody vines	greate	er than 3.	.28 ft
	_			Hydrophytic				
				Vegetation				
				Present? Y	es X	No		
		=Total Cover						

Profile Desc Depth	cription: (Describe t Matrix	to the de		ıment tl x Featur		itor or c	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-20	10YR 2/1	100					Mucky Loam/Clay		
	oncentration, D=Depl	etion, RM	1=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		=Pore Lining, M=Matrix.	
Hydric Soil								r Problematic Hydric So	
Histosol			Polyvalue Belo		ce (S8) (l	LRR R,		k (A10) (LRR K, L, MLR	•
	pipedon (A2)		MLRA 149B		(I DD D	MI DA		irie Redox (A16) (LRR K	-
	stic (A3) en Sulfide (A4)		Thin Dark Surfa					ky Peat or Peat (S3) (LF Below Surface (S8) (LR	•
	d Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L	
	d Below Dark Surface	e (A11)	Loamy Gleyed			, =,		ganese Masses (F12) (LI	
	ark Surface (A12)	,	Depleted Matri		,			Floodplain Soils (F19) (I	
Sandy N	lucky Mineral (S1)		Redox Dark Su	ırface (F	- 6)		Mesic Spo	odic (TA6) (MLRA 144A ,	, 145, 149B)
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	nt Material (F21)	
	Redox (S5)		Redox Depress		8)			low Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LR	R K , L)			Other (Ex	plain in Remarks)	
Dark Su	rface (S7)								
³ Indicators o	f hydronhytic vegetati	ion and w	vetland hydrology mu	iet ha nr	esent ur	alace diet	turbed or problematic.		
	Layer (if observed):		etiana nyarology mi	ist be pi	esent, ui	iless dist	dibed of problematic.		
Type:	_ayo: (ozoo. roa).								
Depth (i	nches).						Hydric Soil Present	? Yes	No
Remarks:							1.,,		<u> </u>
	indicators observed								
,									

Project/Site: Fairfield to Congress - 115kV T-Line	City/Count	y: Fairfield Co.	Sampling Date: 4/5/2022		
Applicant/Owner: Avangrid - United Illuminating		State: CT	Sampling Point: 20		
Investigator(s): SMS	S	ection, Township, Range:			
Landform (hillside, terrace, etc.): Hillslope	_	ave, convex, none): Convex	Slope %: 3		
	41.166095	Long: -73.224588	Datum: NAD 83		
Soil Map Unit Name: 306 - Udorthents-Urban Land com		NWI classification:			
Are climatic / hydrologic conditions on the site typical for			explain in Remarks.)		
, ,	·	 `	•		
Are Vegetation N, Soil N, or Hydrology N	_	Are "Normal Circumstances" preso			
Are Vegetation N, Soil N, or Hydrology N	=	(If needed, explain any answers in	•		
SUMMARY OF FINDINGS – Attach site map	showing sampling poi	nt locations, transects, im	portant features, etc.		
Hydrophytic Vegetation Present? Yes	No X Is the Sa	ampled Area			
Hydric Soil Present? Yes		Wetland? Yes	No X		
Wetland Hydrology Present? Yes		otional Wetland Site ID:	<u></u>		
Remarks: (Explain alternative procedures here or in a s	. ,				
The change between wetland and non-wetland habitats	•		This sample point is located		
in the mostly ballast-covered hillslope between Tidal We	etiand J and the railroad right-of	-way.			
HYDROLOGY					
Wetland Hydrology Indicators:			minimum of two required)		
Primary Indicators (minimum of one is required; check a		Surface Soil Crack	, ,		
	r-Stained Leaves (B9)	Drainage Patterns			
 -	tic Fauna (B13)	Moss Trim Lines (E			
	Deposits (B15)	Dry-Season Water	· ·		
l ` '	ogen Sulfide Odor (C1)	Crayfish Burrows (·		
- 	zed Rhizospheres on Living Ro	· · · · · · · · · · · · · · · · · · ·	on Aerial Imagery (C9)		
I · · · · · · 	ence of Reduced Iron (C4)	Stunted or Stresse	,		
	nt Iron Reduction in Tilled Soils		, ,		
<u> </u>	Muck Surface (C7)	Shallow Aquitard ([·		
I —	r (Explain in Remarks)	Microtopographic F	` '		
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test ((D5)		
Field Observations:					
Surface Water Present? Yes No	- ' ' 				
Water Table Present? Yes No	- · · · · · · · · · · · · · · · ·				
Saturation Present? Yes No No	Depth (inches):	Wetland Hydrology Present?	Yes No _ x		
(includes capillary fringe)	U	ation a) if annihable			
Describe Recorded Data (stream gauge, monitoring wel	il, aeriai photos, previous inspe	otions), if available:			
Remarks:					
No signs of wetland hydrology observed					
,g.,					

VEGETATION – Use scientific names of p	lants.				Sampling	g Point:	20	
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	workshee	t:		
 Not applicable 		·		Number of Domin That Are OBL, FA			0	(A)
3 4	•			Total Number of I Species Across A			1	_(B)
5.6.				Percent of Domin That Are OBL, FA			0.0%	(A/B)
7.				Prevalence Inde				<u>-` ′</u>
		=Total Cover		Total % Cov	er of:	Mu	ıltiply by:	
Sapling/Shrub Stratum (Plot size: 15)	•		OBL species	0		0	
1. Not applicable				FACW species		-		_
2.				FAC species		-		_
3				FACU species		-		
4				UPL species		x 5 =	0	_
_				Column Totals:		(A)	400	— (B)
6				_	e Index = B			— ^(D)
7				Hydrophytic Veg		_		
<i>'</i>		=Total Cover		1 - Rapid Tes	=			
Harb Stratum (Diet size: E		- Total Cover		I			jetation	
Herb Stratum (Plot size: 5)	00		E4011	2 - Dominano				
1. Solidago canadensis	90	Yes	FACU	3 - Prevalenc				
2. Erigeron canadensis	10	No	FACU	4 - Morpholog	gical Adapta marks or on			
3								
4				Problematic I	Hydrophytic	Vegetation	on¹ (Expla	ain)
5. 6.		·		¹ Indicators of hyd be present, unles				must
7.				Definitions of Ve	getation S	trata:		
8.				T \\\(\frac{1}{2} \rightarrow \rightar		0>		
9.				Tree – Woody pla diameter at breas				neight.
10.								_
11.				Sapling/shrub – and greater than				ЭВН
12.				Herb – All herbad				ardless
	100	=Total Cover		of size, and wood	y plants les	s than 3.2	28 ft tall.	
Woody Vine Stratum (Plot size: 30) 1. Not applicable)			Woody vines – A height.	All woody vir	nes great	er than 3.	28 ft in
2.								
3.	•			Hydrophytic				
4.				Vegetation Present?	Yes	No	Χ	
		=Total Cover				_		
Damandra, (Include wheth mumbers have a see a com-								
Remarks: (Include photo numbers here or on a sep Not a Hydrophytic community as illustrated by result								

Profile Desc Depth	cription: (Describe to Matrix	to the de _l		ıment th x Featur		tor or co	nfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	s
0-2	10YR 3/2	100						Silt Loam, ver	y rocky
2-18	10YR 5/4	100						Silt Loam, ver	v rockv
					_ _ _ _				
					_ _ _				
¹Type: C=Co	oncentration, D=Depl	letion, RM	=Reduced Matrix, N	MS=Mas	ked Sand	Grains.	² Location: PL	_=Pore Lining, M=Mati	rix.
Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sui	(A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) I Below Dark Surface ark Surface (A12) lucky Mineral (S1) sleyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7)	ion and w	Polyvalue Belo MLRA 149B Thin Dark Surfi High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) Sands (S Mineral (Matrix (x (F3) urface (F Surface sions (F8 R K, L)	(LRR R, s11) (LRF (F1) (LRF F2) 6) (F7)	MLRA 1 R K, L) R K, L)	2 cm Muc Coast Pra 49B) 5 cm Muc Polyvalue Thin Dark Iron-Man Piedmont Mesic Sp Red Pare Very Sha	or Problematic Hydric ck (A10) (LRR K, L, M airie Redox (A16) (LRI cky Peat or Peat (S3) e Below Surface (S8) (k Surface (S9) (LRR K ganese Masses (F12) t Floodplain Soils (F19 bodic (TA6) (MLRA 14 ent Material (F21) allow Dark Surface (F2 kplain in Remarks)	LRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) (, L) ((LRR K, L, R) () (MLRA 149B) 4A, 145, 149B)
Type:							Hydric Soil Presen	it? Yes	No X
Remarks: No hydric so	ils indicators observe	ed.							



APPENDIX: F CT DEEP Natural Diversity Database Correspondence





CPPU USE ONLY
App #:
Doc #:
Check #: No fee required
Program: Natural Diversity Database Endangered Species
Hardcopy Electronic

Request for Natural Diversity Data Base (NDDB) State Listed Species Review

Please complete this form in accordance with the <u>instructions</u> (DEEP-INST-007) to ensure proper handling of your request.

There are no fees associated with NDDB Reviews.

Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the DEEP website . These maps are updated twice a year, usually in June and December.					
Does your site, including all affected areas, fall in an NDDB Area according to the map instructions:					
Yes X No Enter the date of	f the map reviewed for pre-screening: 09/06/2019				
This form is being submitted for a :					
 ∑ New NDDB request Renewal/Extension of a NDDB Request, without modifications and within two years of issued NDDB determination (no attachments required) [CPPU Use Only - NDDB-Listed Species Determination # 1736] 	 New Safe Harbor Determination (optional) must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities Renewal/Extension of an existing Safe Harbor Determination With modifications Without modifications (no attachments required) [CPPU Use Only - NDDB-Safe Harbor Determination # 1736] 				
Enter NDDB Determination Number for Renewal/Extension:	Enter Safe Harbor Determination Number for Renewal/Extension:				

Part II: Requester Information

*If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD. (www.concord-sots.ct.gov/CONCORD/index.jsp)

If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change company/Individual Information to the address indicated on the form.

1.	Requester*		
	Company Name: BL Companies		
	Contact Name: Donald Smith		
	Address: 355 Research Parkway		
	City/Town: Meriden	State: CT	Zip Code: 06450
	Business Phone: 203-608-2402	ext.	
	**E-mail: DSmith@BLCompanies.com		
	**By providing this email address you are agreeing to receive this electronic address, concerning this request. Please remer can receive emails from "ct.gov" addresses. Also, please notif	nber to check yo	ur security settings to be sure you
a)	Requester can best be described as:		
	☐ Individual ☐ Federal Agency ☐ State agence	cy 🗌 Munici _l	pality 🗌 Tribal
	★ business entity (* if a business entity complete i through)	iii):	
	i) Check type 🗵 corporation 🗌 limited liability com	pany 🗌 lim	ited partnership
	☐ limited liability partnership ☐ statuto	ry trust 🔲 Ot	her:
	ii) Provide Secretary of the State Business ID #: Th	is information ca	in be accessed at the Secretary
	of the State's database (CONCORD). (www.concord	d-sots.ct.gov/CO	NCORD/index.jsp)
	iii) \square Check here if your business is NOT registered with t	he Secretary of	State's office.
b)	Acting as (Affiliation), pick one:		
	☐ Property owner ☒ Consultant ☐ Engineer ☐	☐ Facility owne	r
	☐ Biologist ☐ Pesticide Applicator ☐ Other r	epresentative:	
2.	List Primary Contact to receive Natural Diversity Data Badifferent from requester.	ase correspond	lence and inquiries, if
	Company Name:		
	Contact Person:	Title:	
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.	
	**E-mail:		

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

1.	SITE NAME AND LOCATION
	Site Name or Project Name: Sasco Creek to Congress Substation
	Town(s): Fairfield and Brideport
	Street Address or Location Description: The coordinates for the approximate southwestern and northe-astern ends of this linear project are N41.126608/W73.301790 and N41.184136/W73.185377, respectively. The project site is a linear corridor (i.e., an existing rail road), approximately
	Size in acres, or site dimensions: 8.0 miles long and 50 feet wide on the north and south sides of the Metro North rail way.
	Latitude and longitude of the center of the site in decimal degrees (e.g., 41.23456 -71.68574):
	Please refer to above description. Latitude: Longitude:
	Method of coordinate determination (check one):
	☐ GPS ☐ Photo interpolation using CTECO map viewer ☒ Other (specify): CAD/GIS Files
	Describe the current land use and land cover of the site. The field investigations were conducted within the area of the Metro North rail way Right-of-Way, a transportation corridor constructed over 100-years ago and in constant use since then. As such, this historic land use and both past and present anthropogenic actions have affected the ecology of areas within the railroad right-of-way. Check all that apply and enter the size in acres or % of area in the space after each checked category.
	☐ Industrial/Commercial ☐ Residential ☐ Forest
	☐ Transportation Right-of-way ☐ Other (specify):
	t IV: Project Information
1.	PROJECT TYPE:
	Choose Project Type: Choose Type From Dropdown List , If other describe:
2.	Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? ☐ Yes ☒ No If yes, explain.

Part IV: Project Information (continued)

3.	Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.
t m r c l k	The client is investigating upgrades to existing electric transmission lines and poles located within the CTDOT railroad right-of-way. These upgrades may involve the installation of multiple new transmission towers within or near the existing CTDOT railroad right-of-way between Fairfield and Bridgeport, CT. Anticipated construction equipment includes but is not limited to trans, bucket trucks, pulling mechanisms for new wire, excavators, coaders, and construction support vehicles. Wetland resources will be field delineated and avoided to the extent practicable. Further avoidance and mitigation strategies will be developed as conceptual clans progress.
4.	If this is a renewal or extension of an existing Safe Harbor request with modifications, explain what about the project has changed.
5.	Provide a contact for questions about the project details if different from Part II primary contact. Name:
	Phone: E-mail:

Part V: Request Requirements and Associated Application Types

Check one box from either Group 1, Group 2 or Group 3, indicating the appropriate category for this request.

Group 1. If you check one of these boxes, complete Parts I – VII of this form and submit the required attachments A and B.					
☐ Preliminary screening was negative but an NDDB review is still requested					
Request regards a municipally regulated or unregulated activity (no state permit/certificate needed)					
🗵 Request regards a preliminary site assessment or project feasibility study					
☐ Request relates to land acquisition or protection					
Request is associated with a <i>renewal</i> of an existing permit or authorization, with no modifications					
Group 2. If you check one of these boxes, complete Parts I – VII of this form and submit required attachments A, B, <i>and</i> C.					
Request is associated with a <i>new</i> state or federal permit or authorization application or registration					
☐ Request is associated with modification of an existing permit or other authorization					
Request is associated with a permit enforcement action					
🗵 Request regards site management or planning, requiring detailed species recommendations					
Request regards a state funded project, state agency activity, or CEPA request					
☐ Group 3. If you are requesting a Safe Harbor Determination , complete Parts I-VII and submit required attachments A, B, and D. Safe Harbor determinations can only be requested if you are applying for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities					
If you are filing this request as part of a state or federal permit application(s) enter the application information below.					
Permitting Agency and Application Name(s):					
Related State DEEP Permit Number(s), if applicable:					
State DEEP Enforcement Action Number, if applicable:					
State DEEP Permit Analyst(s)/Engineer(s), if known:					
Is this request related to a previously submitted NDDB request? Yes No					
If yes, provide the previous NDDB Determination Number(s), if known:					

Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests and Safe Harbor renewals/extensions with modifications.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

	Overview Map: an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site.
	Detailed Site Map: fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
	Supplemental Information, Group 2 requirement (attached, DEEP-APP-007C) Section i: Supplemental Site Information and supporting documents Section ii: Supplemental Project Information and supporting documents
Attachment D:	Safe Harbor Report Requirements, Group 3 (attached, DEEP-APP-007D)

Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."	
	09/06/2019
Signature of Requester (a typed name will substitute for a handwritten signature)	Date
Donald Smith	Senior Project Manager
Name of Requester (print or type)	Title (if applicable)
	09/06/2019
Signature of Preparer (if different than above)	Date
Daniel J. King	Senior Project Scientist
Name of Preparer (print or type)	Title (if applicable)

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION 79 ELM STREET HARTFORD, CT 06106-5127

Or email request to: deep.nddbrequest@ct.gov

Attachment C: Supplemental Information, Group 2 requirement

Section i: Supplemental Site Information

1.	Existing Conditions
	Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted. Photographs of current site conditions may be helpful to reviewers.
	Site Photographs (optional) attached
	Site Plan/sketch of existing conditions attached
2.	Biological Surveys
	Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species
	If yes, complete the following questions and submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms.
	Biologist(s) name:
	Habitat and/or species targeted by survey:
	Dates when surveys were conducted:
	☐ Reports of biological surveys attached
	☐ Documentation of biologist's qualifications attached
Sec	tion ii: Supplemental Project Information
1.	Provide a schedule for all phases of the project including the year, the month and/or season that the proposed activity will be initiated and the duration of the activity.
2.	Describe and quantify the proposed changes to existing conditions and describe any on-site or off-site
	impacts. In addition, provide an annotated site plan detailing the areas of impact and proposed changes to existing conditions.
	☐ Annotated Site Plan attached

Attachment D: Safe Harbor Report Requirements

Submit a report, as Attachment D, that synthesizes and analyzes the information listed below. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

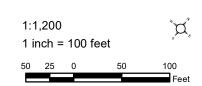
- 1. Habitat Description and Map(s), including GIS mapping overlays, of a scale appropriate for the site, identifying:
 - wetlands, including wetland cover types;
 - plant community types;
 - topography;
 - soils;
 - bedrock geology;
 - floodplains, if any;
 - · land use history; and
 - water quality classifications/criteria.
- 2. **Photographs** The report should include photographs of the site taken from the ground and also all reasonably available aerial or satellite photographs and an analysis of such photographs.
- **3. Inspection** A visual inspection(s) of the site should be conducted, preferably when the ground is visible, and described in the report. This inspection can be helpful in confirming or further evaluating the items noted above.
- 4. Biological Surveys The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.
- 5. Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity. This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.
- 6. In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:
 - Information on Site Disturbance Estimates/Site Alteration information
 - Vehicular Use
 - Construction Activity Phasing Schedules, if any; and
 - Alteration of Drainage Patterns





Project Location

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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



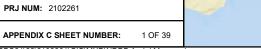


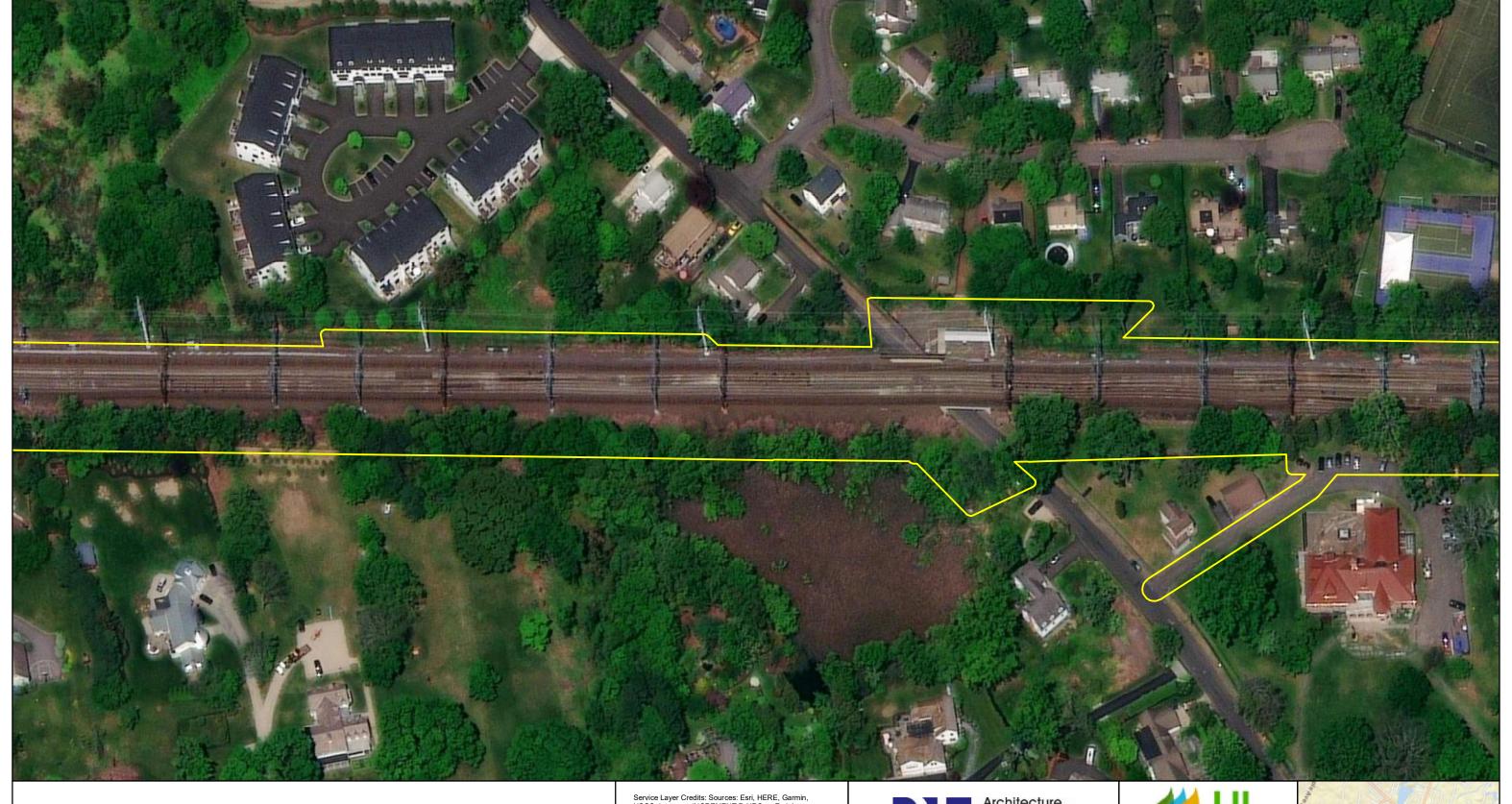
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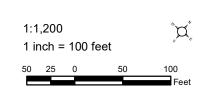






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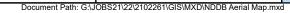
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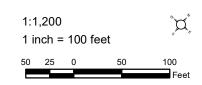






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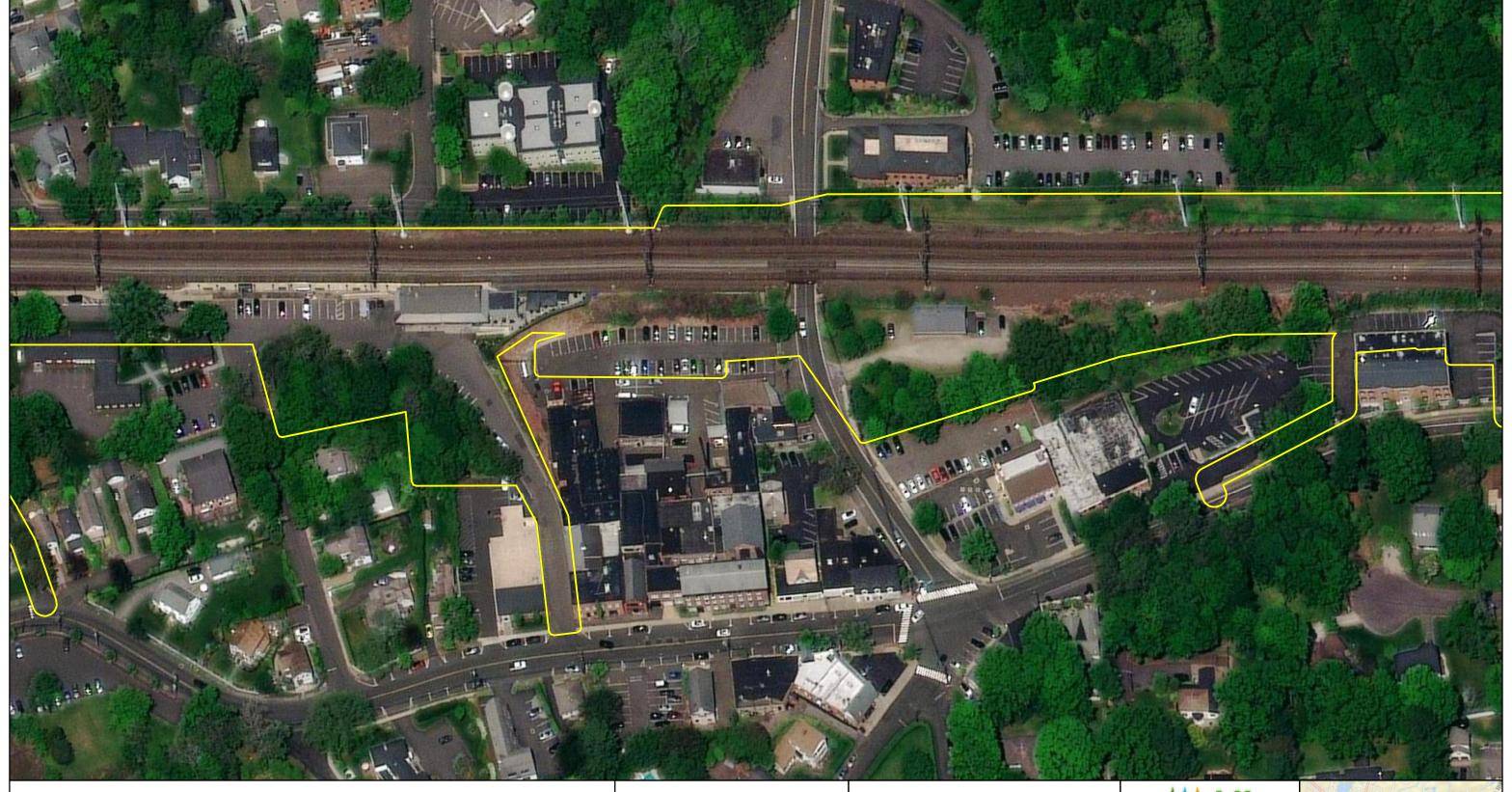
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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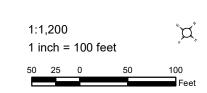




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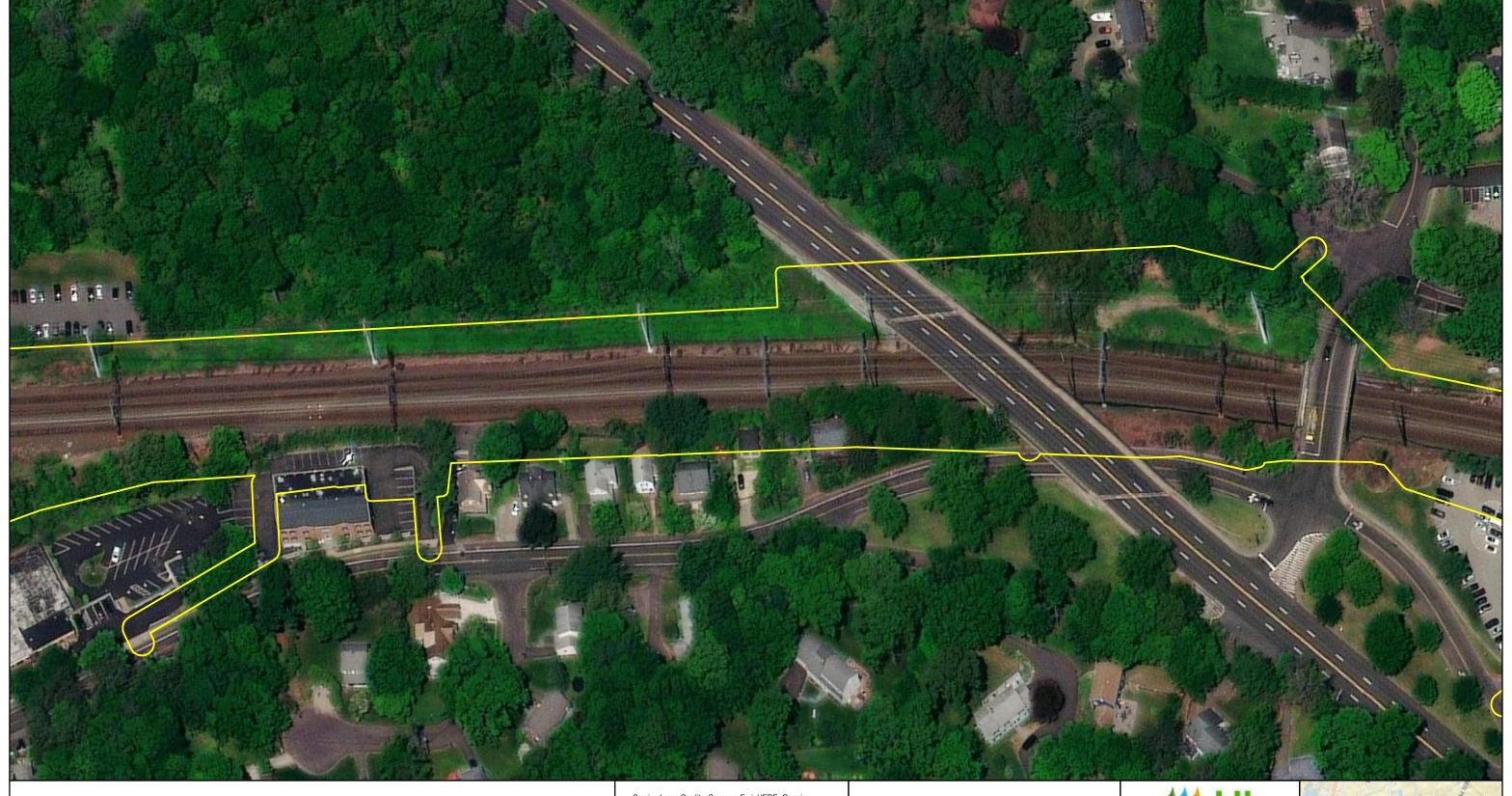
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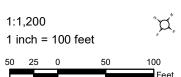




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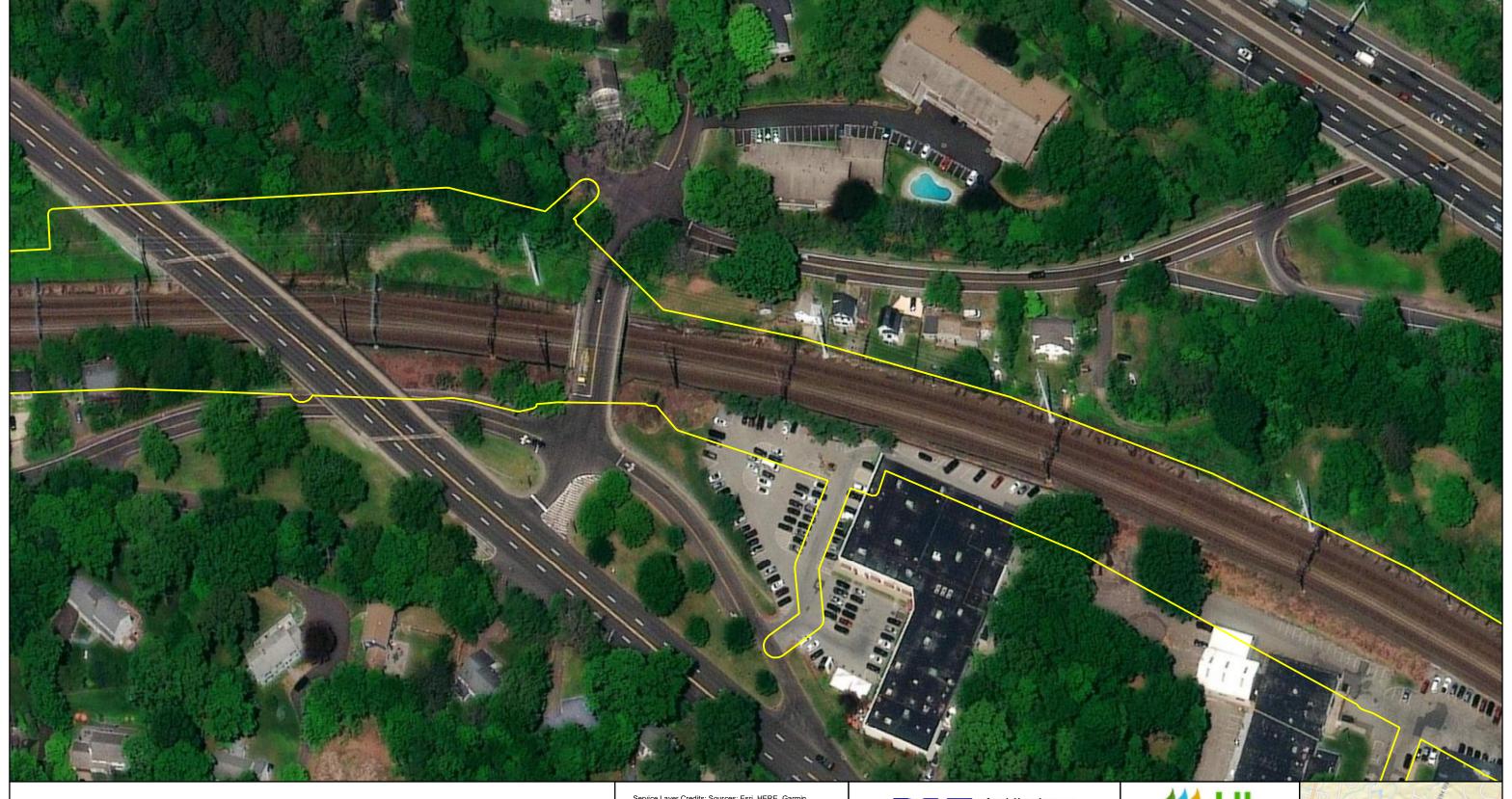
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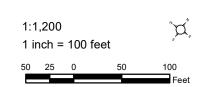






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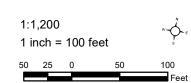




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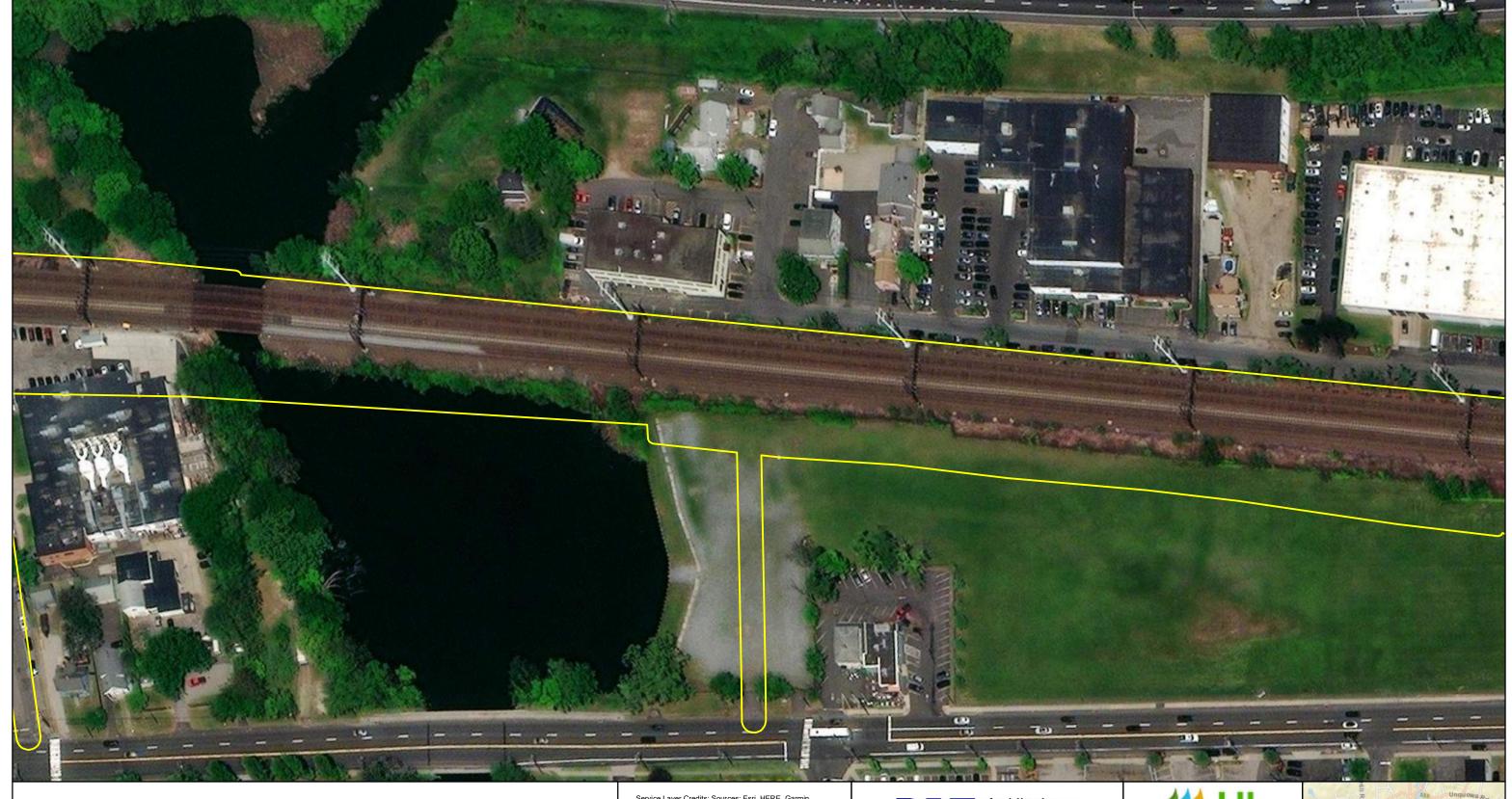


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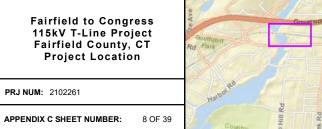
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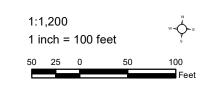




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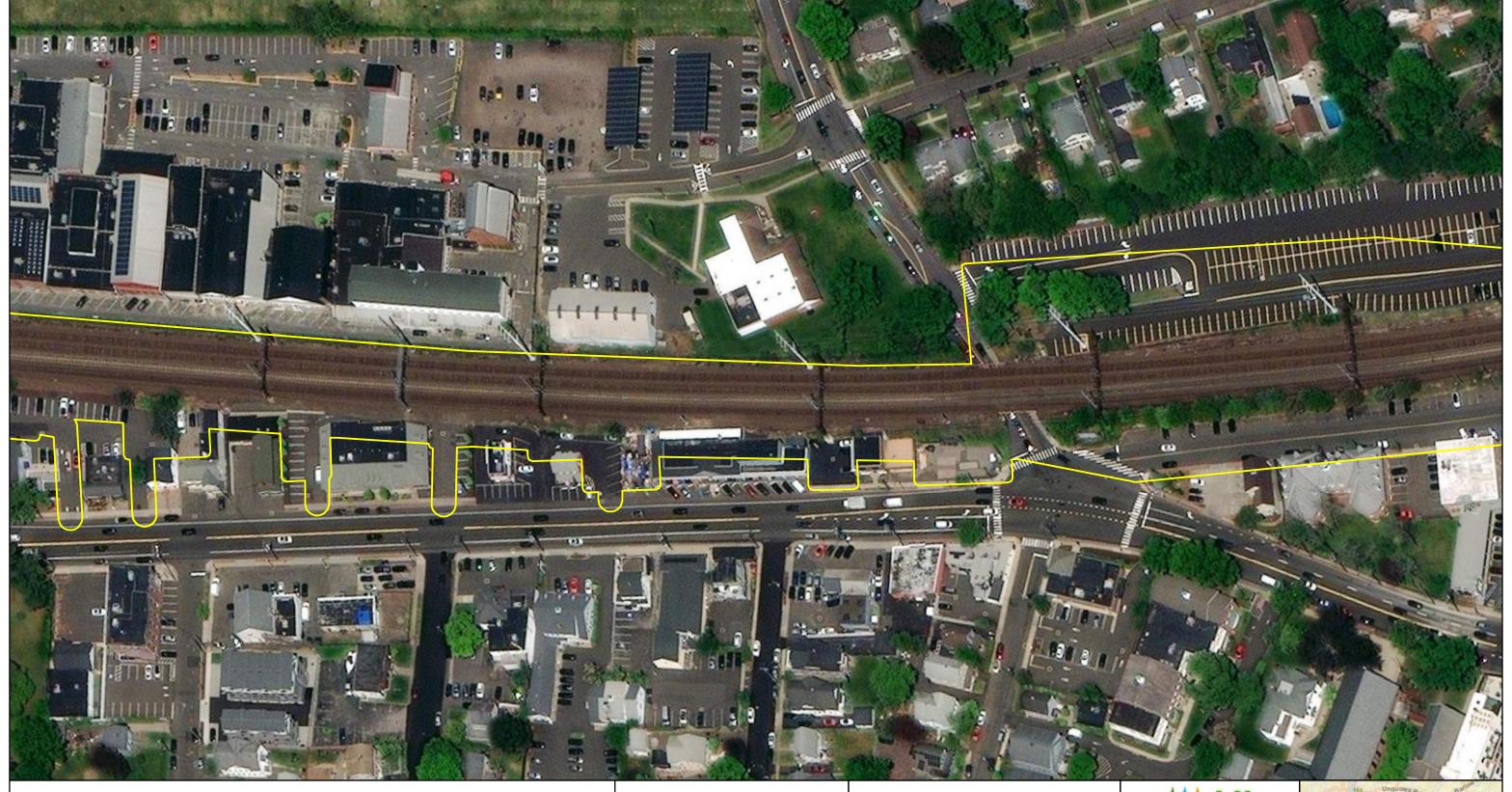
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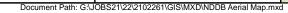
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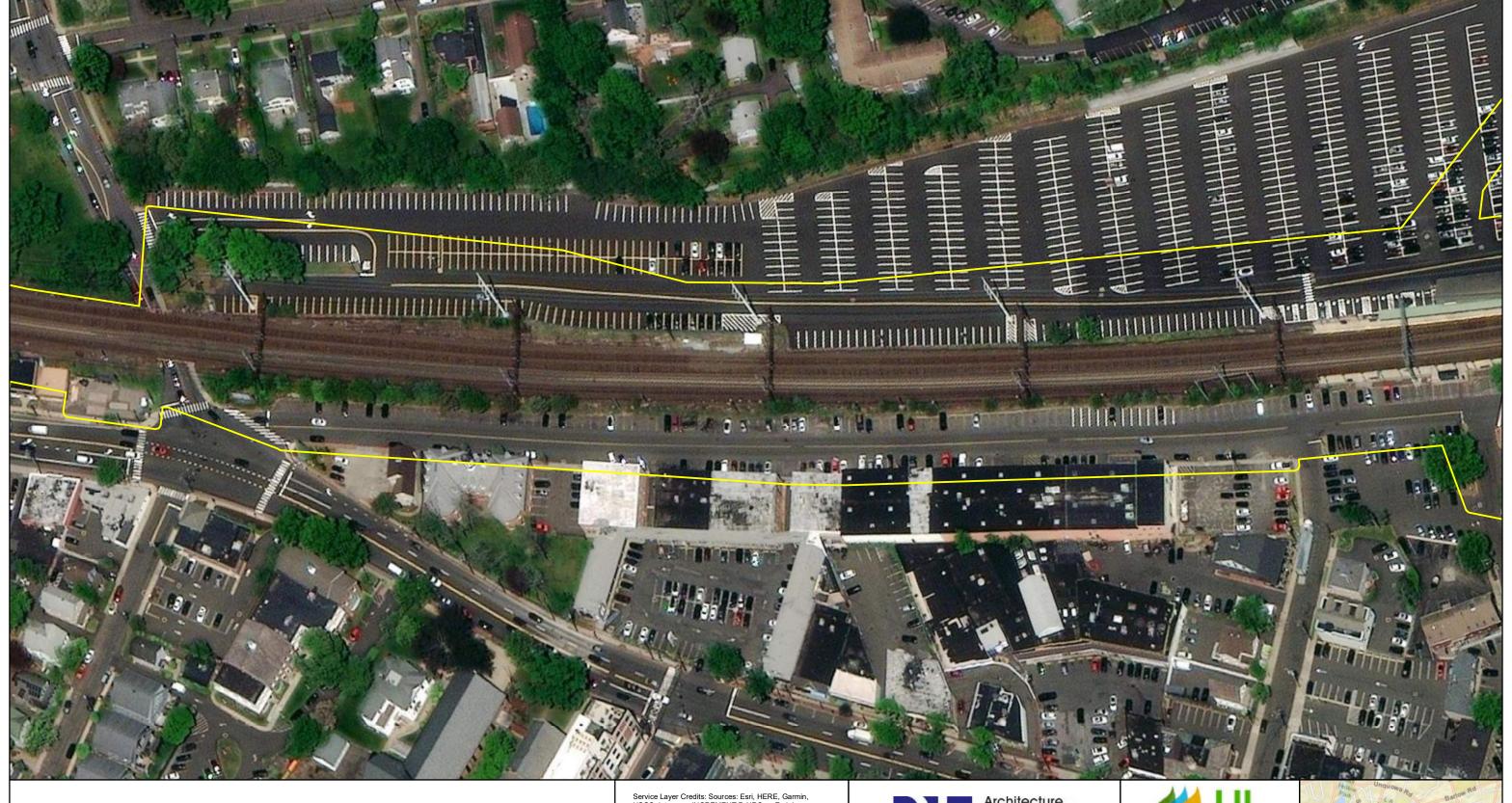


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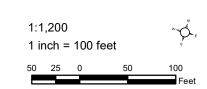




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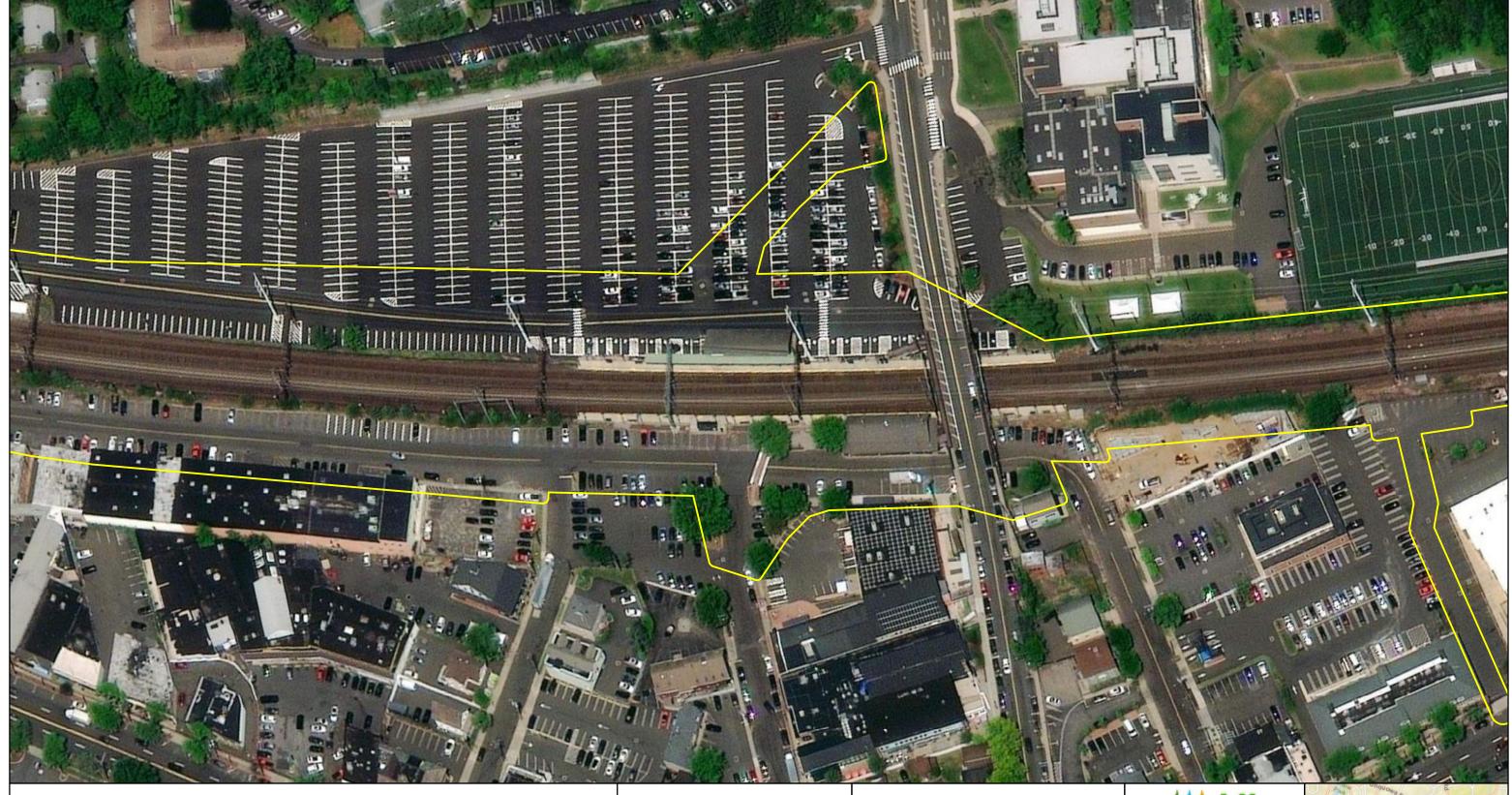
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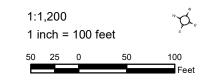




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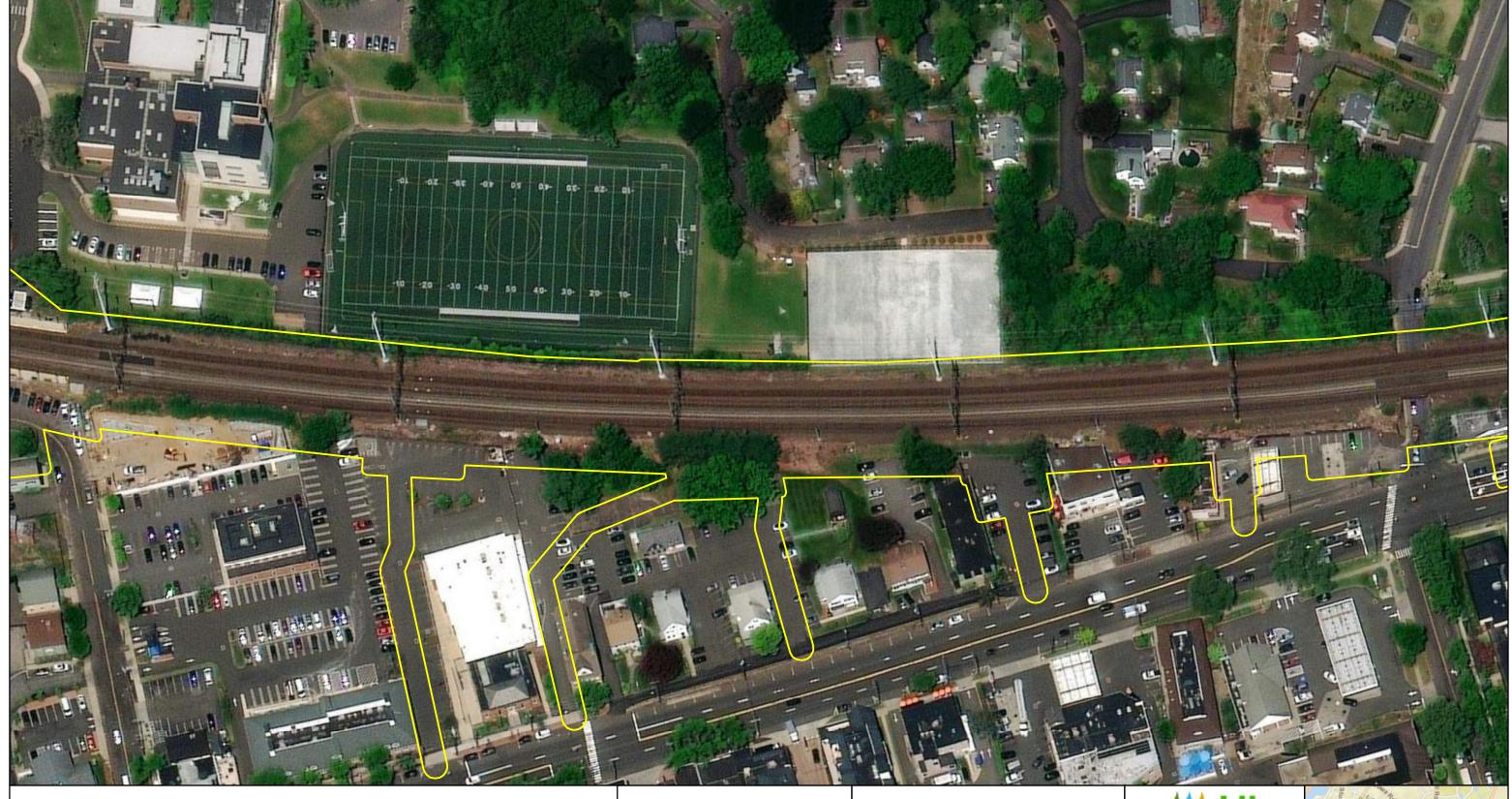


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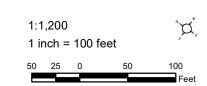




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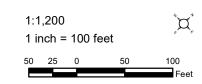




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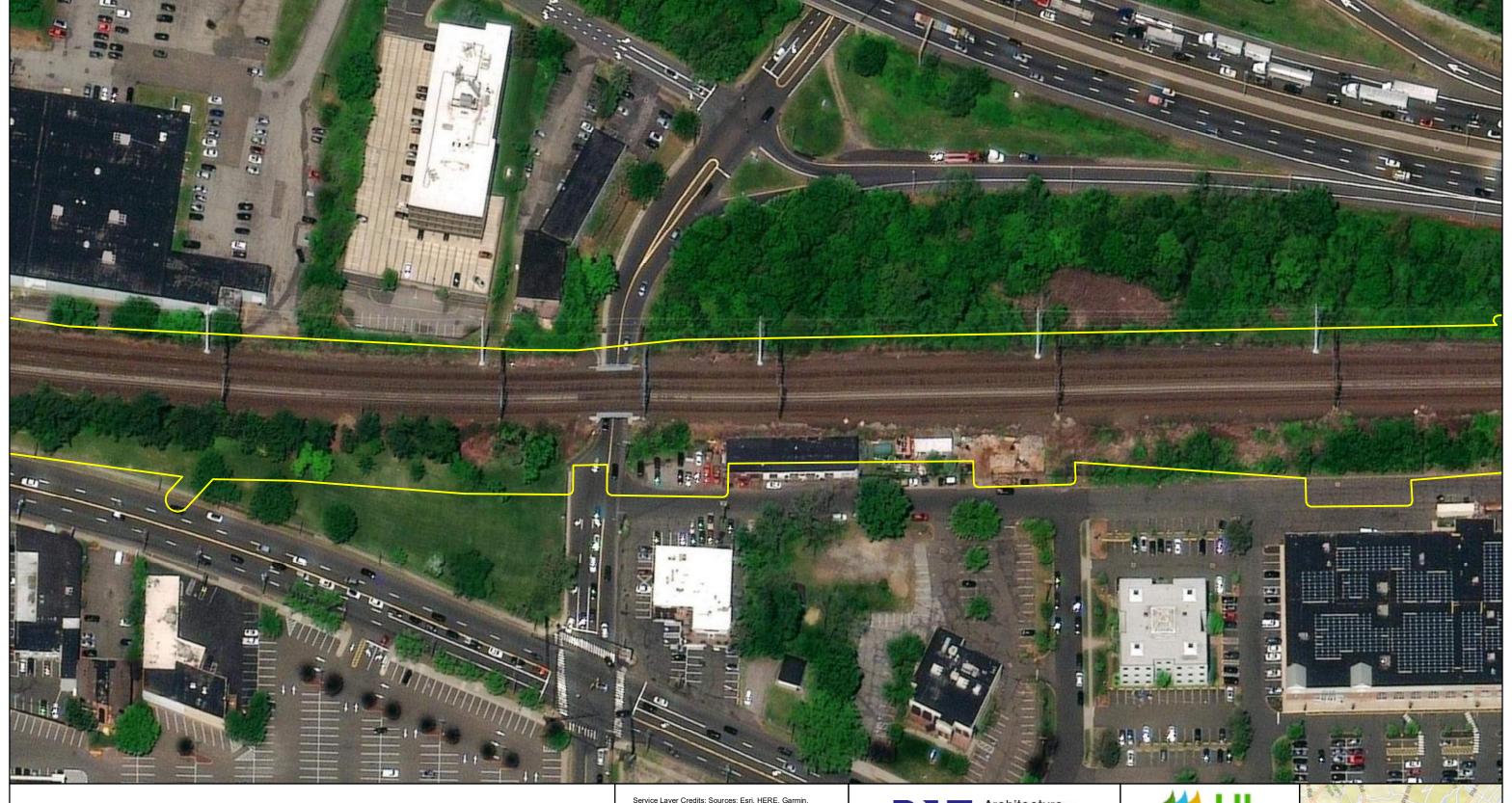
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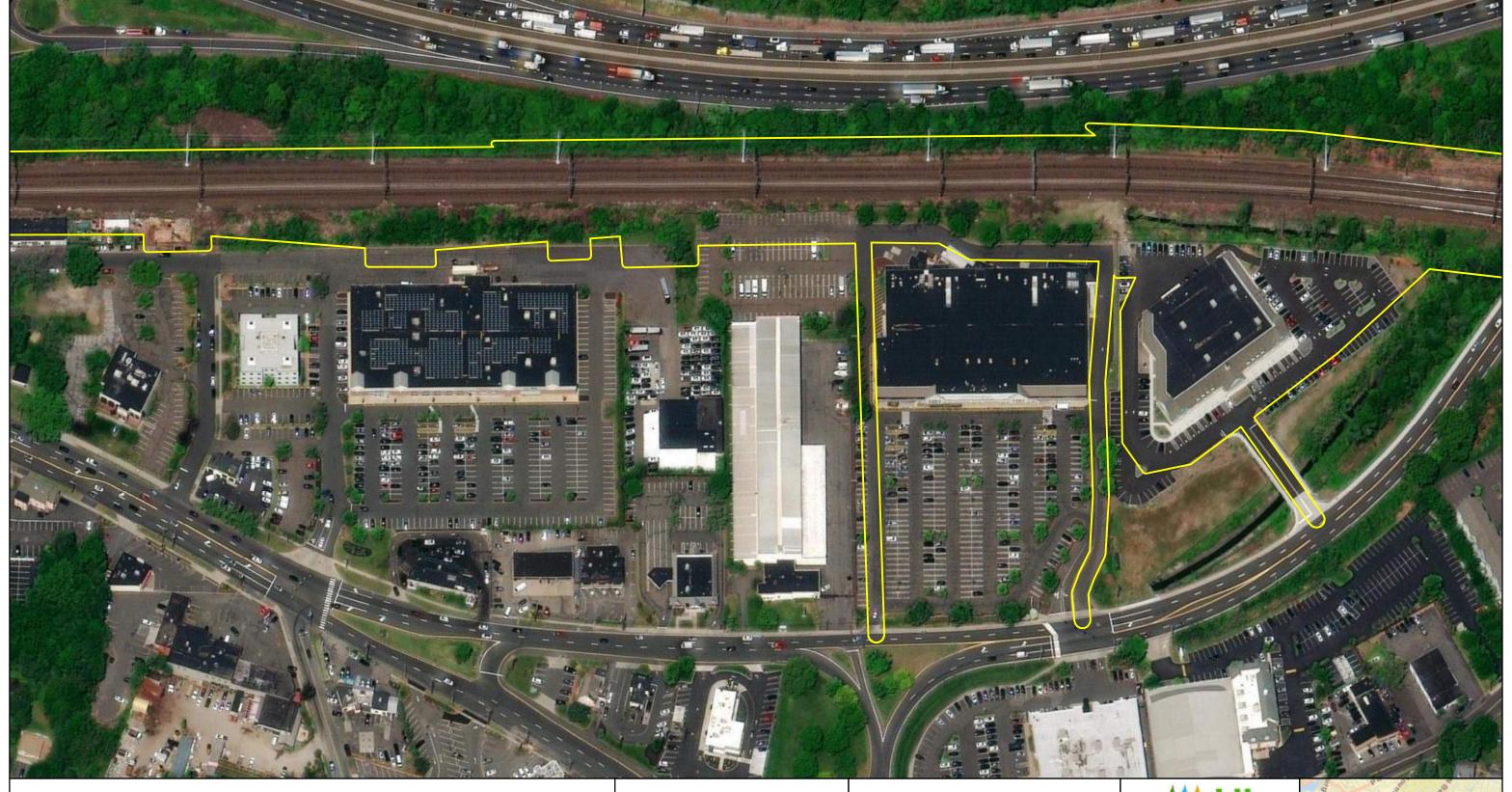
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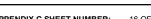


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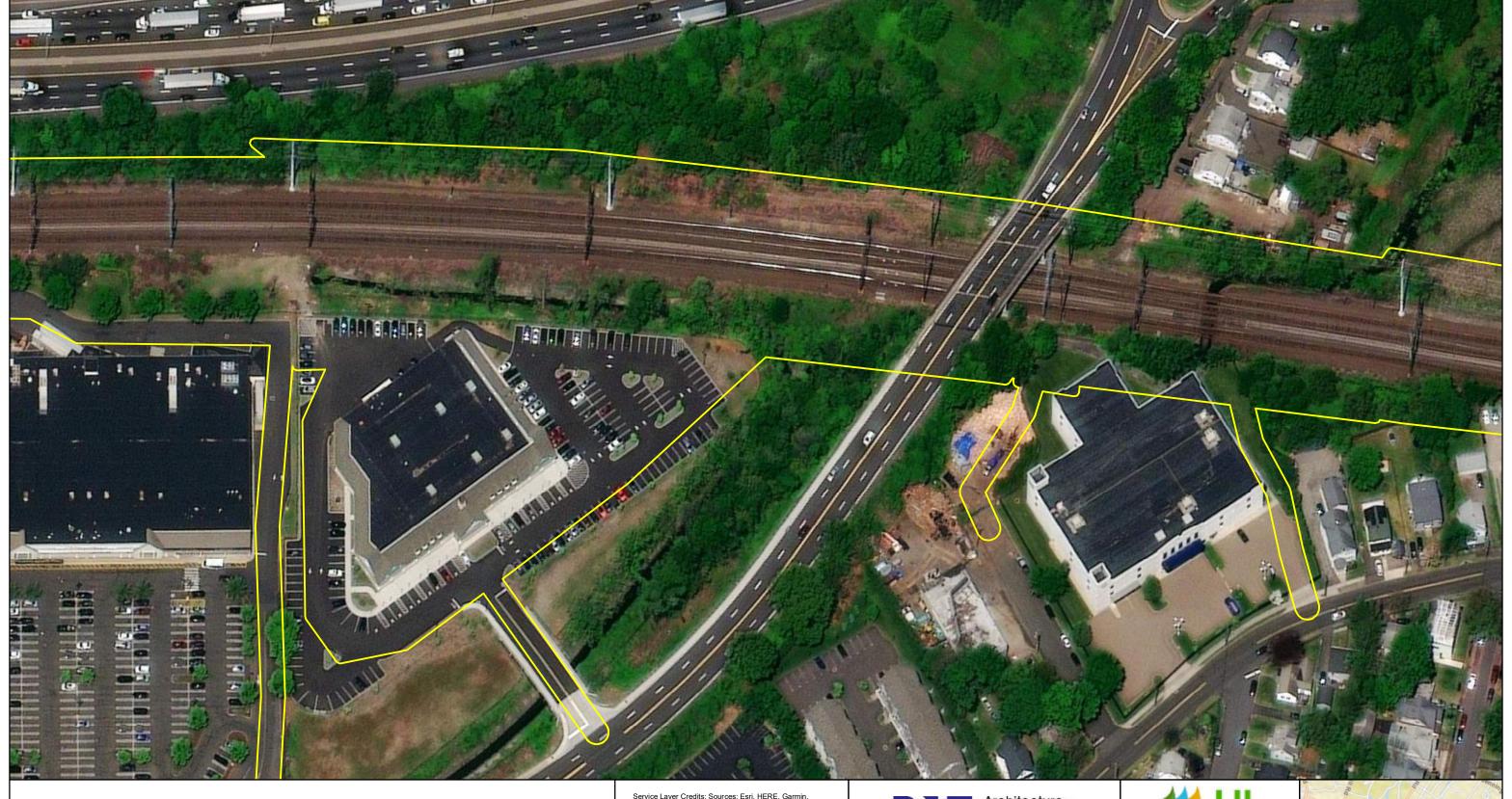
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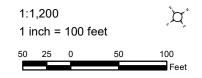




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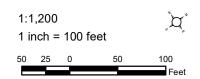
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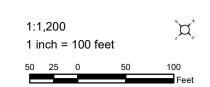




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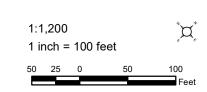






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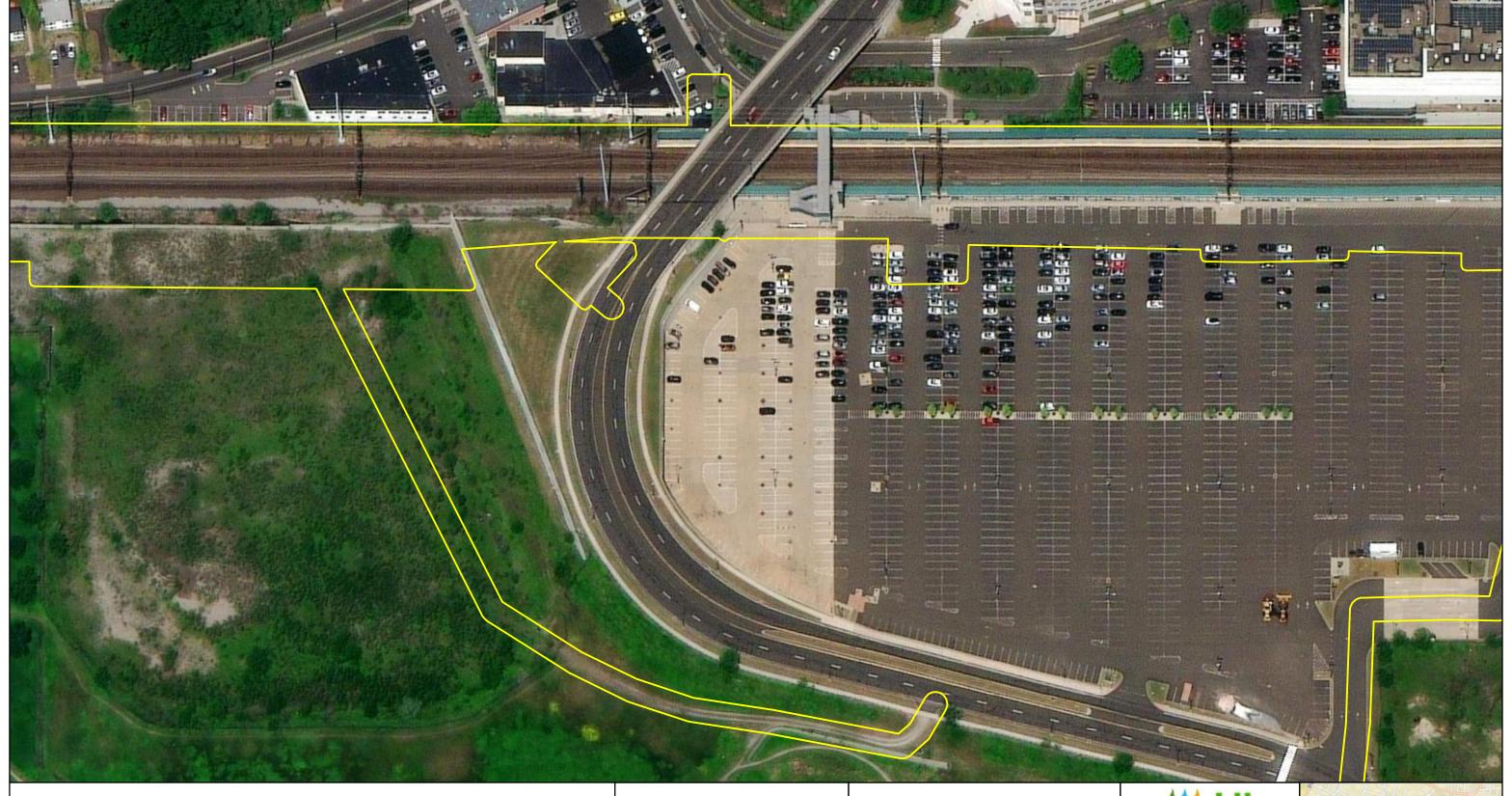


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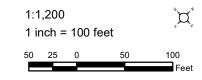




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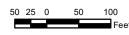
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1 inch = 150 feet





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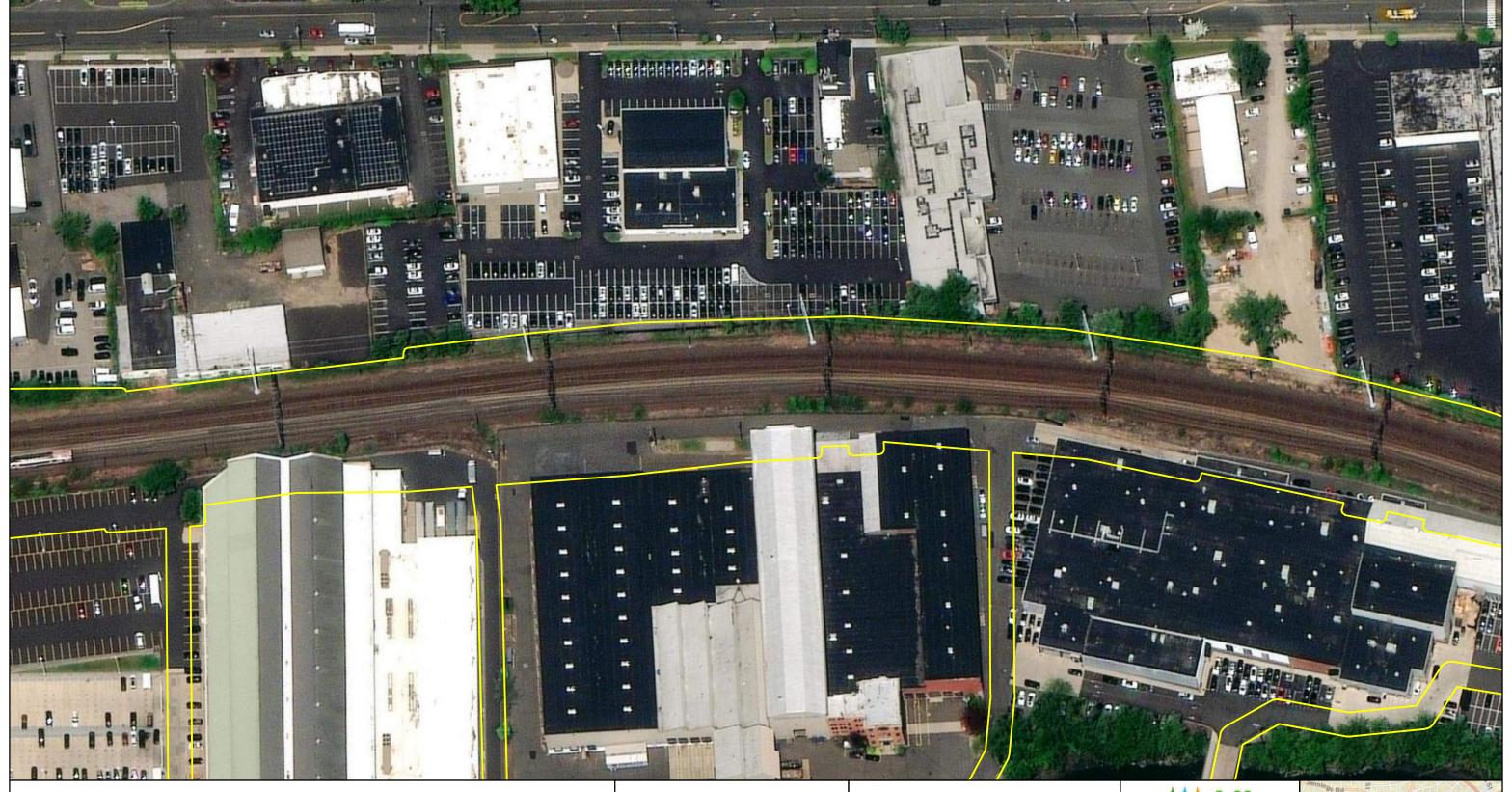


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

DATE: 8/27/2022 PRJ NUM: 2102261

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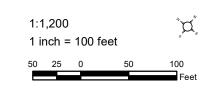




Project Location

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User

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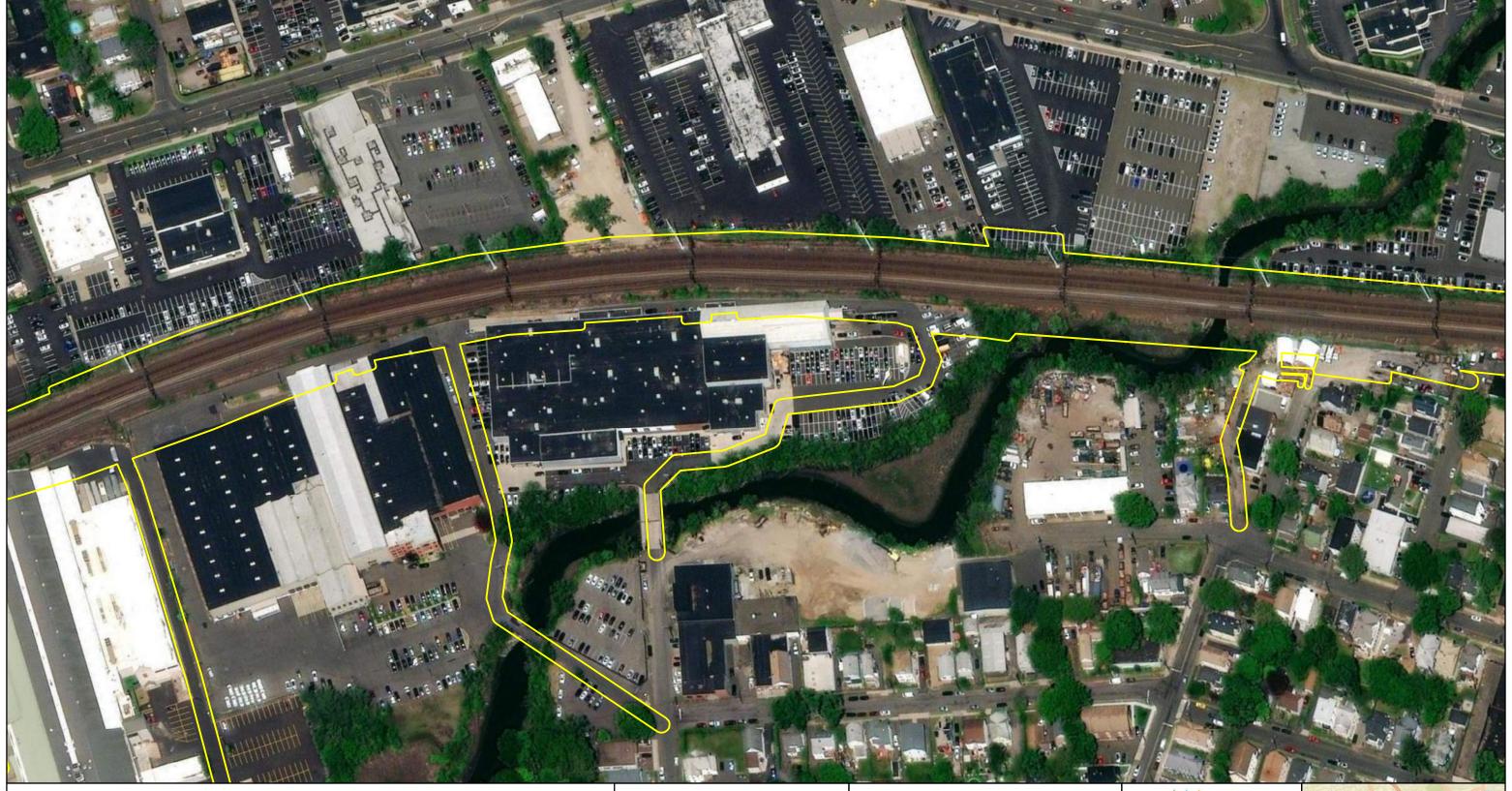


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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Project Location

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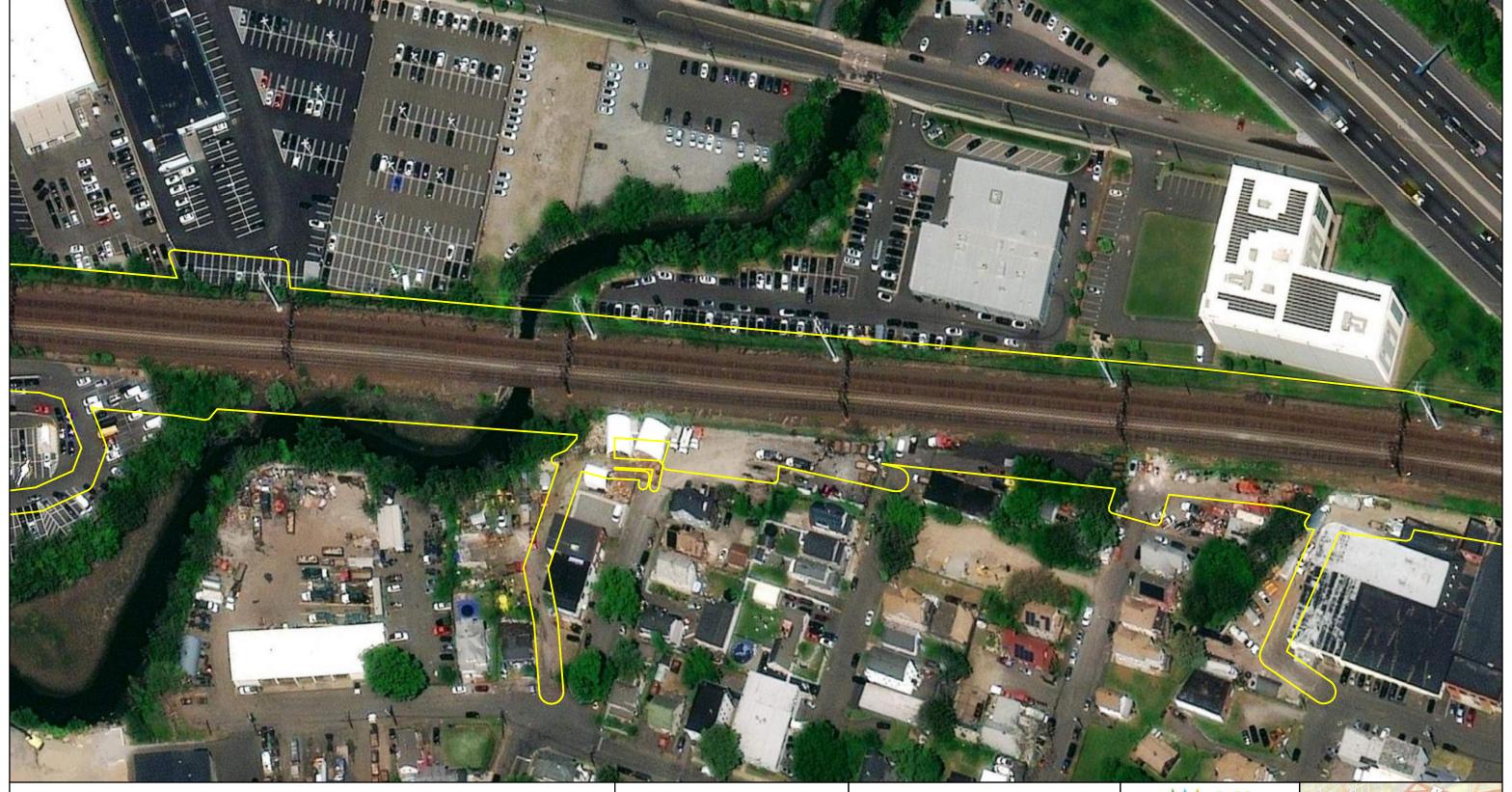


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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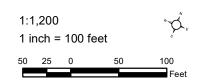






Project Location

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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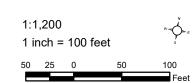






Project Location

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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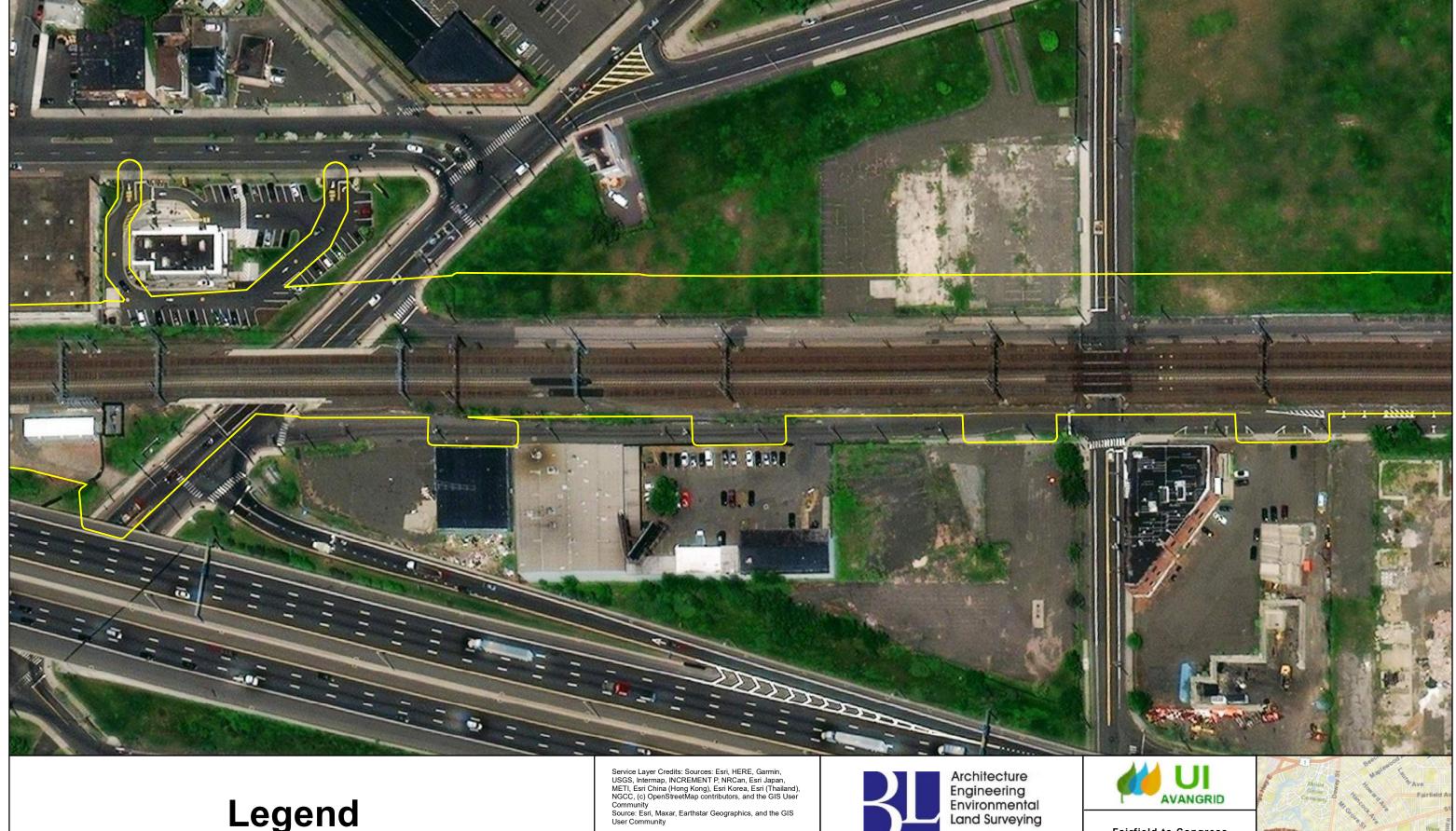


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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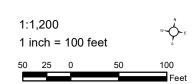




Project Location

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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1 inch = 150 feet





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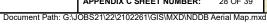


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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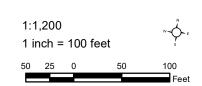




Project Location

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

DATE: 8/27/2022

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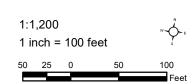






Project Location

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC. (c) OpenStreetMap contributors, and the GIS User Community
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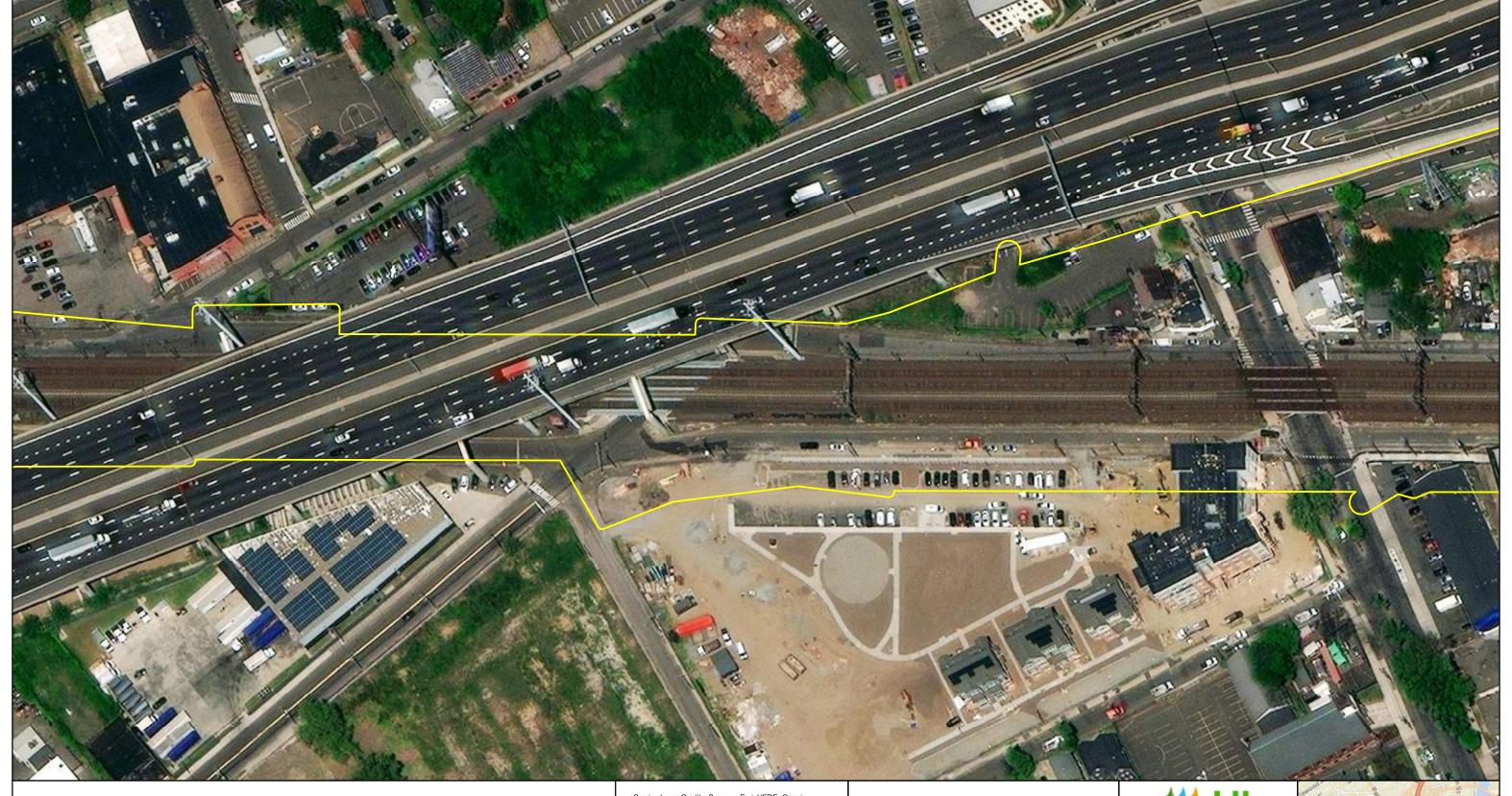


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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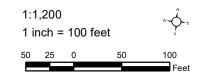






Project Location

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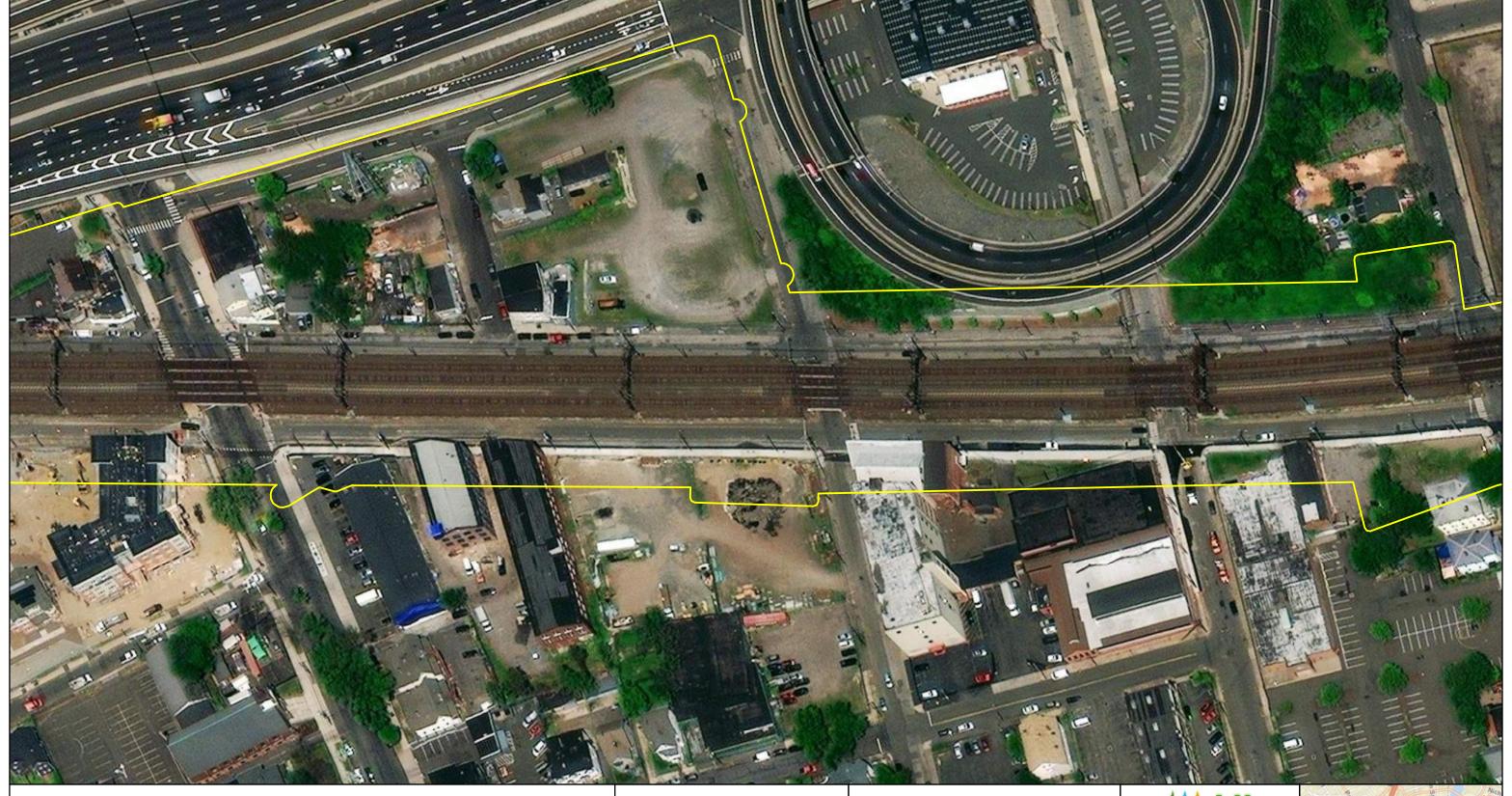


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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

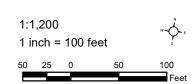
PRJ NUM: 2102261 APPENDIX C SHEET NUMBER: 31 OF 39





Project Location

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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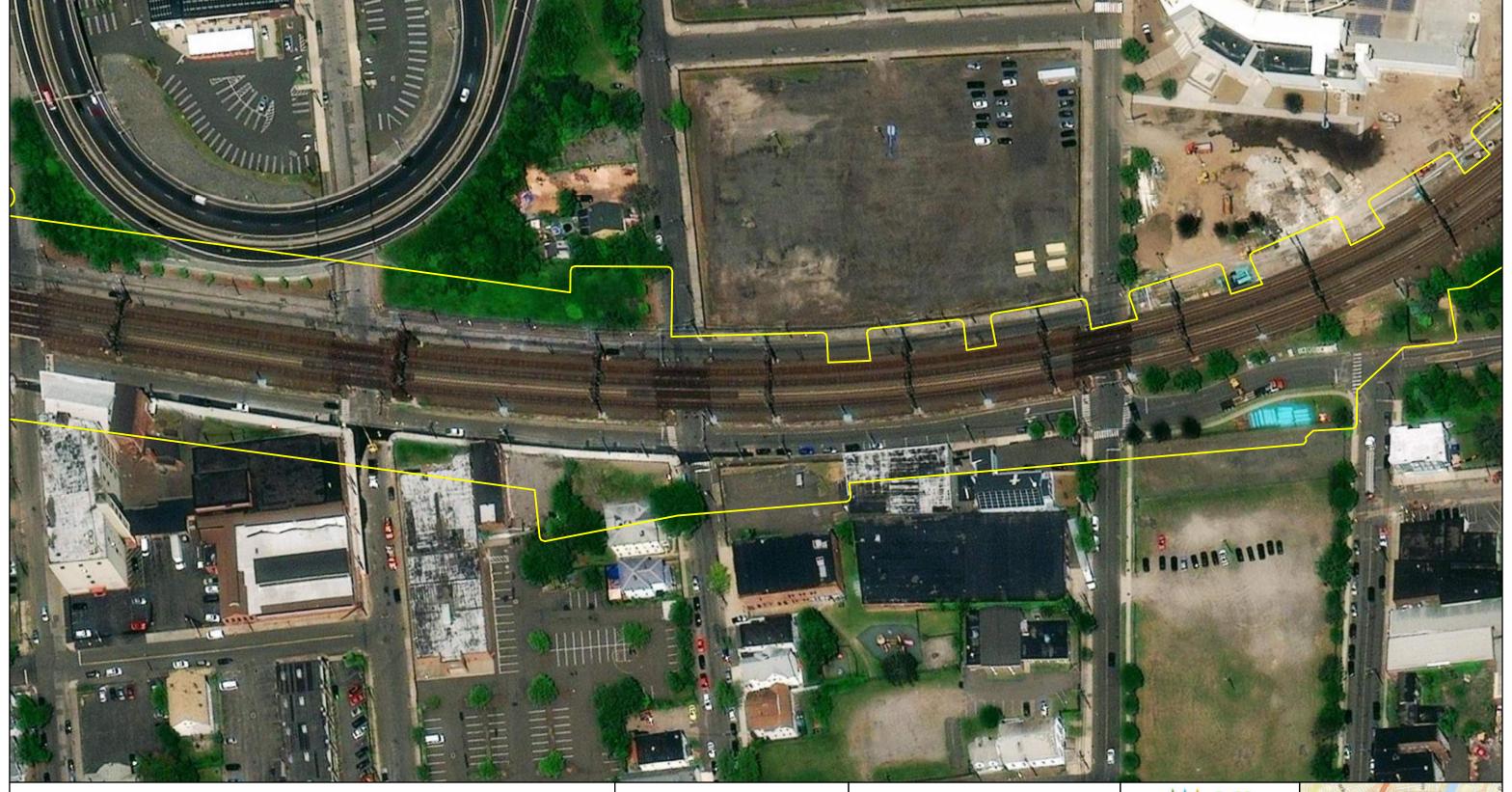
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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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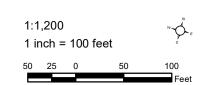






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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community





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Version: Version 3	DATE: 8/27/2022	



Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location PRJ NUM: 2102261 APPENDIX C SHEET NUMBER: 33 OF 39

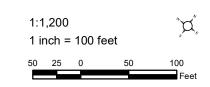






Project Location

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Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

PRJ NUM: 2102261

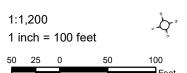
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Project Location

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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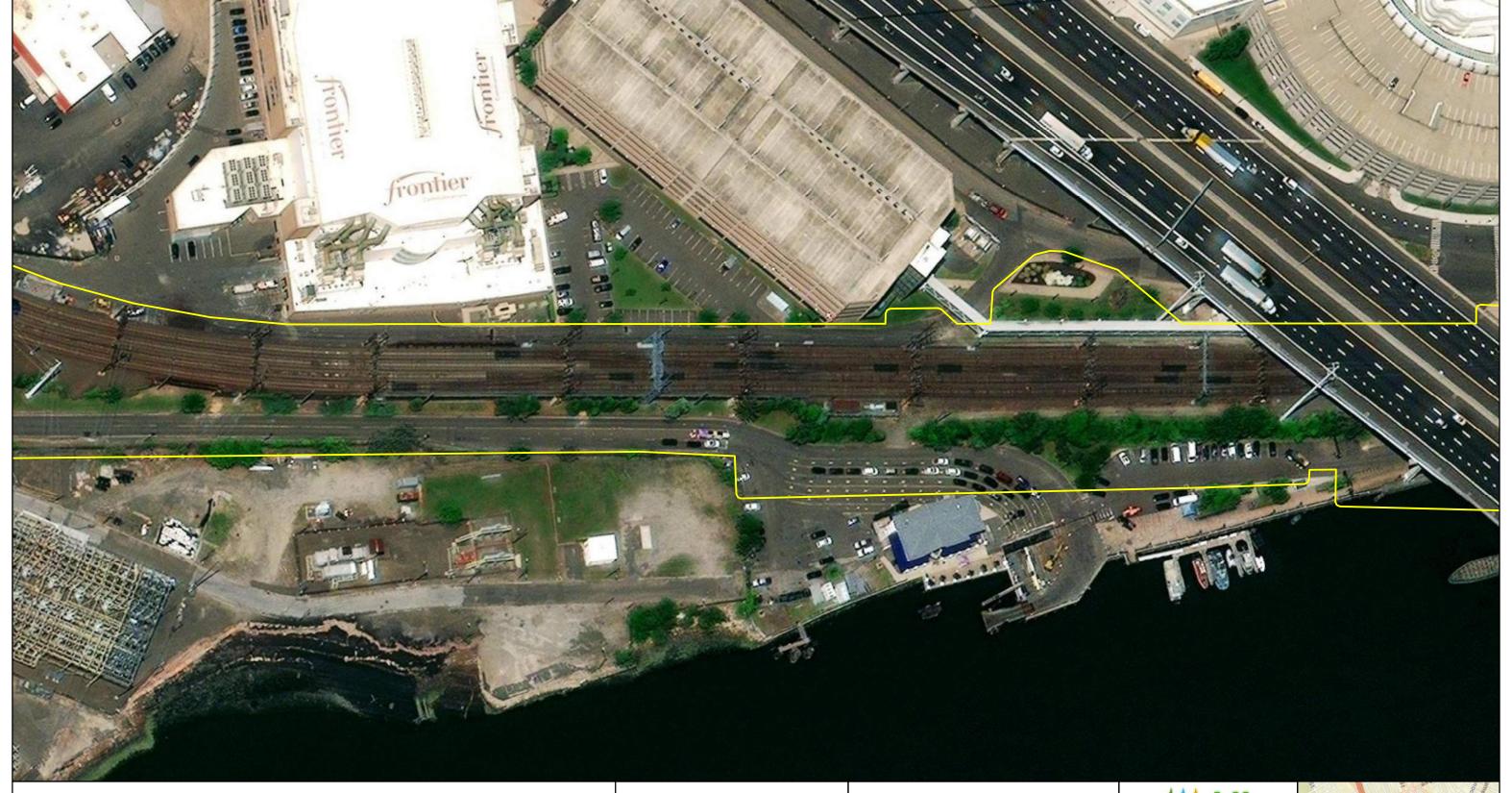
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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PRJ NUM: 2102261

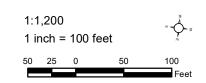




Project Location

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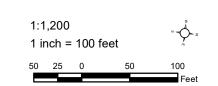




Project Location

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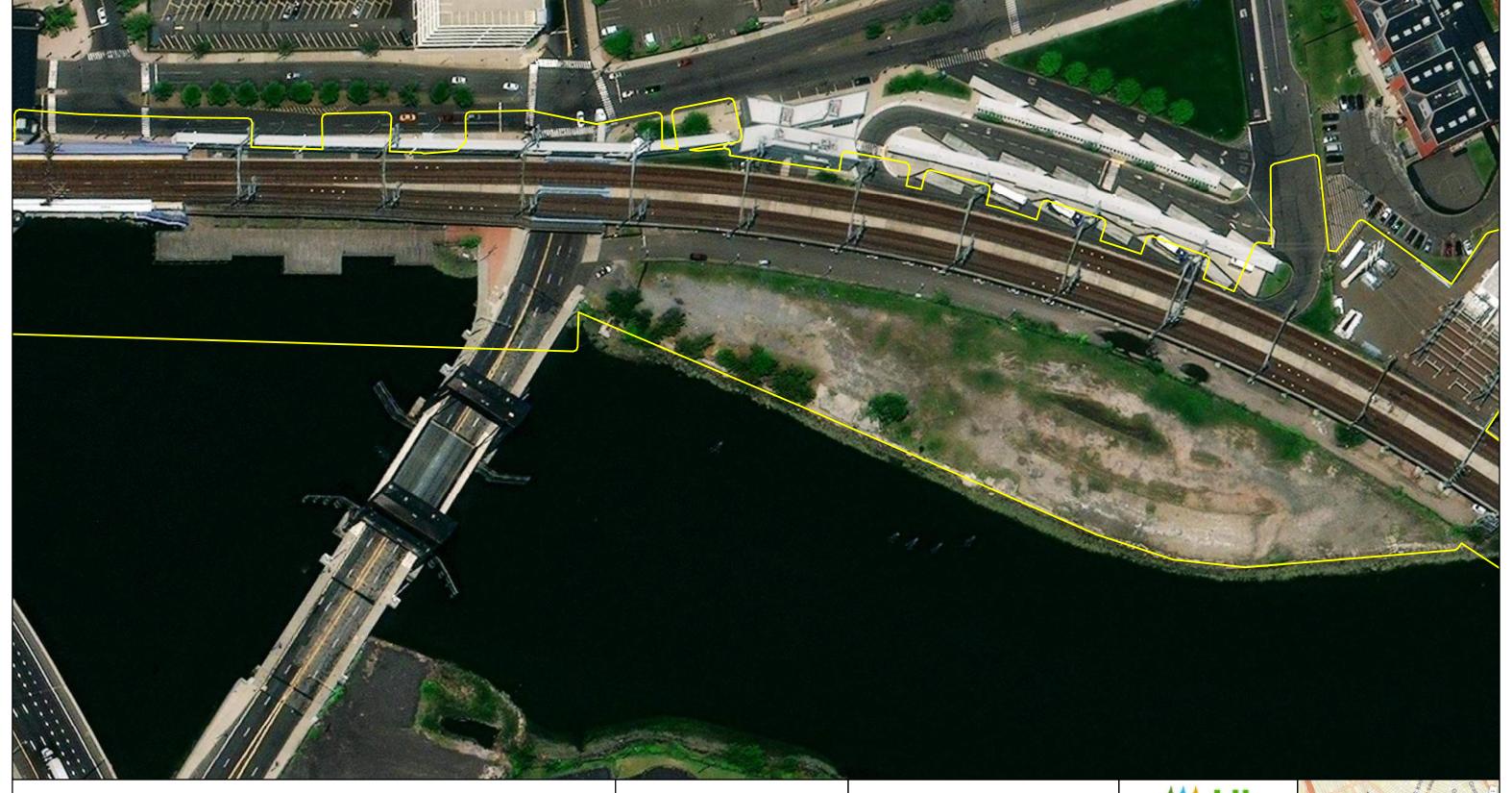
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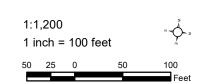




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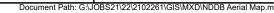
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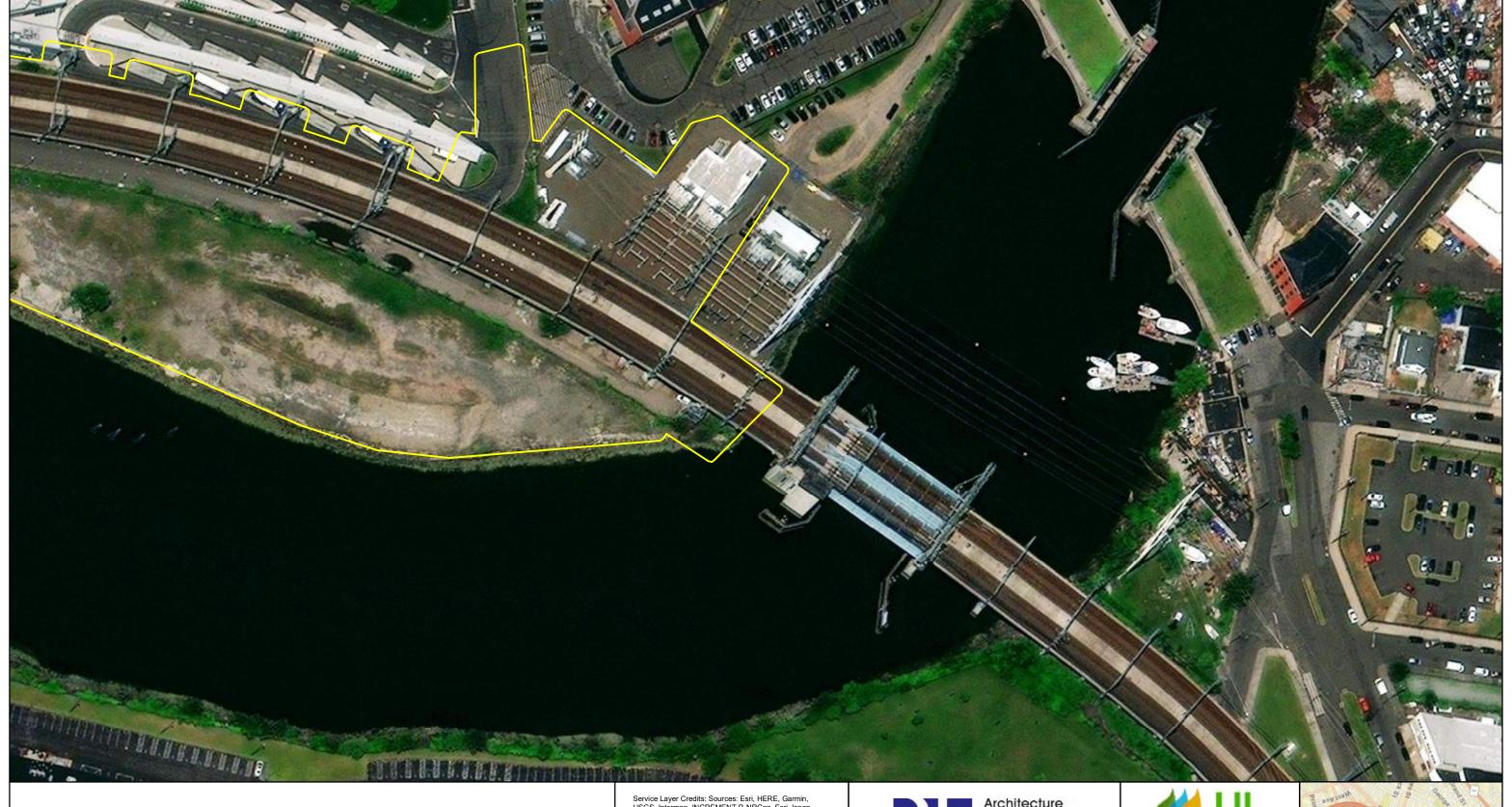


Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

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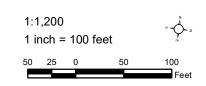




Project Location

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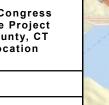
Architecture Engineering Environmental Land Surveying

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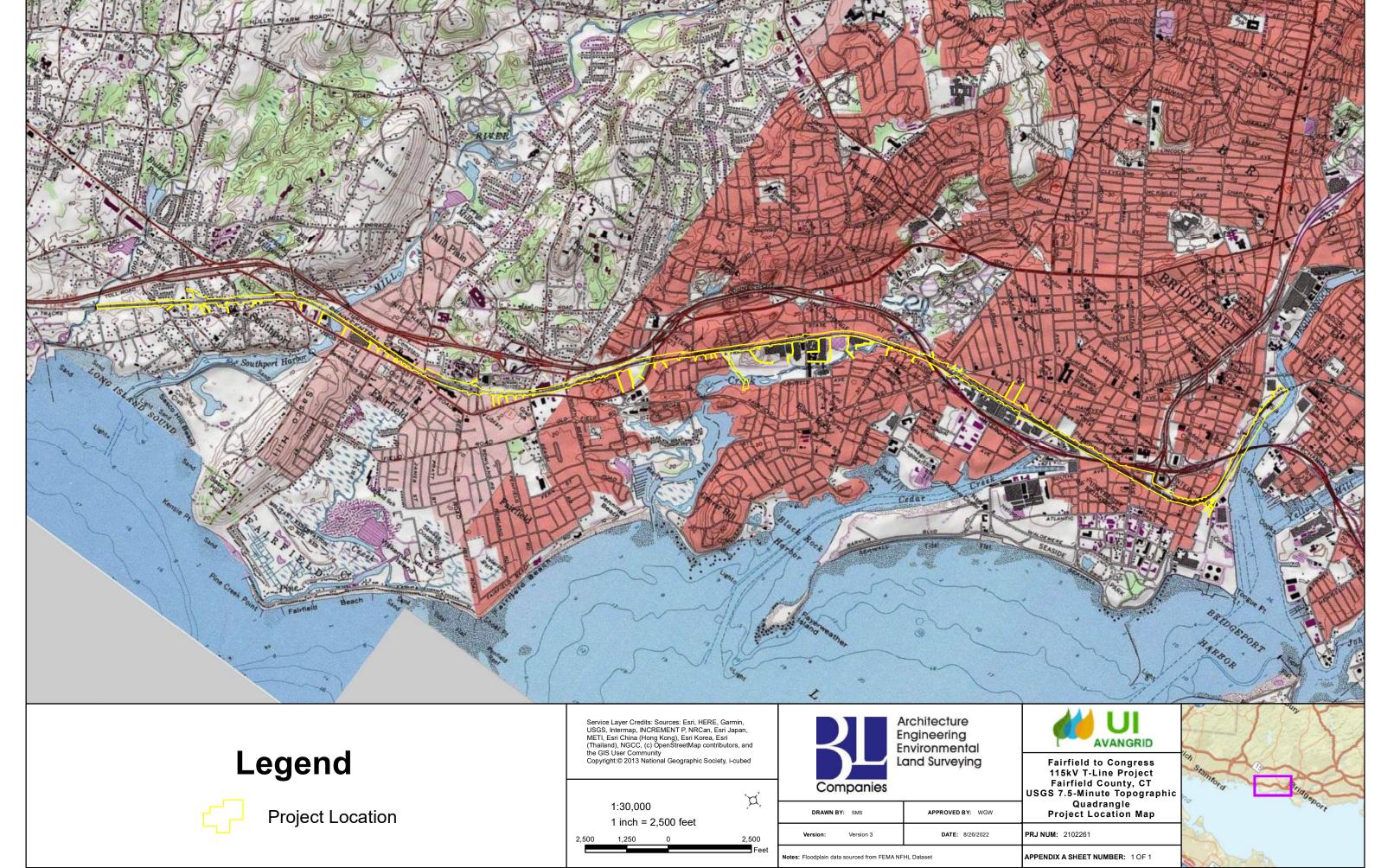
Fairfield to Congress 115kV T-Line Project Fairfield County, CT Project Location

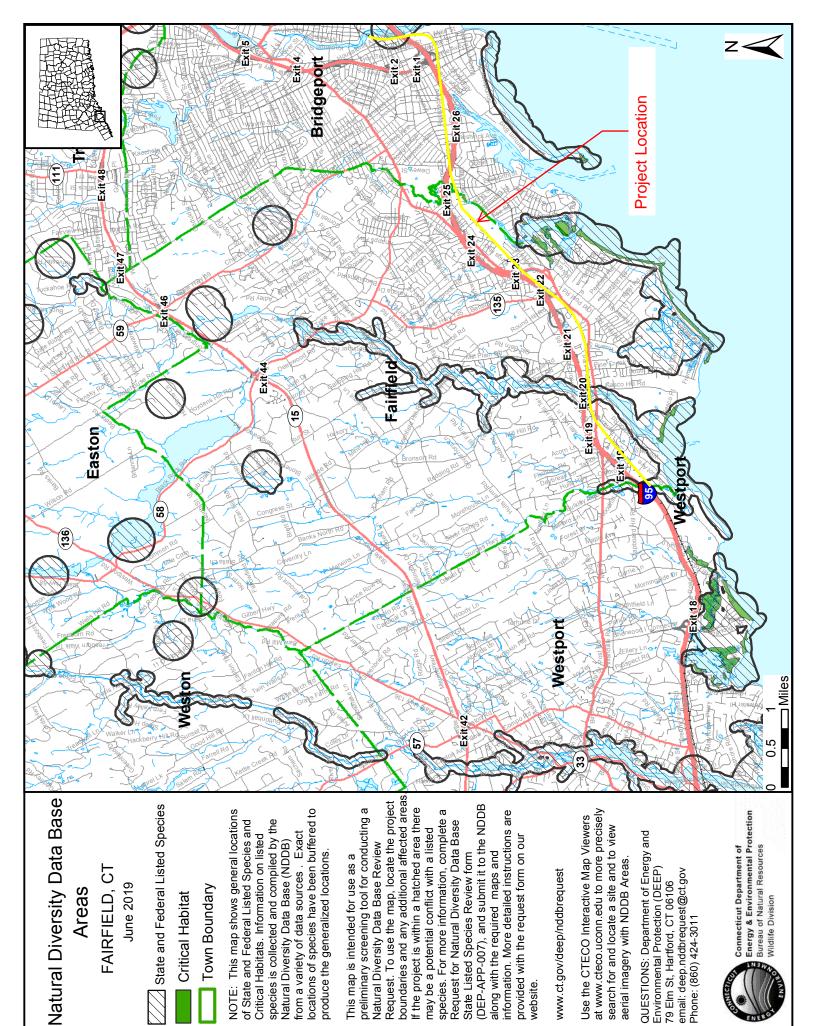
DATE: 8/27/2022



PRJ NUM: 2102261

APPENDIX C SHEET NUMBER: 39 OF 39





Phone: (860) 424-3011

website.



APPENDIX:	G U.S. Fish &	Wildlife Sei	rvice IPaC I	Report





United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

http://www.fws.gov/newengland



IPaC Record Locator: 712-18167397 September 06, 2019

Subject: Consistency letter for the 'Sasco Creek to Congress Substation' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR

§17.40(o).

Dear Joseph Kempf:

The U.S. Fish and Wildlife Service (Service) received on September 06, 2019 your effects determination for the 'Sasco Creek to Congress Substation' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take" of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

• Red Knot, Calidris canutus rufa (Threatened)

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

[1] Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

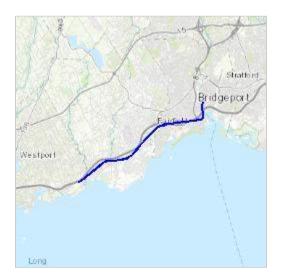
Sasco Creek to Congress Substation

2. Description

The following description was provided for the project 'Sasco Creek to Congress Substation':

The client is investigating upgrades to existing electric transmission lines and poles located within the CTDOT railroad right-of-way. These upgrades may involve the installation of multiple new transmission towers within or near the existing CTDOT railroad right-of-way between Fairfield and Bridgeport, CT. Anticipated construction equipment includes but is not limited to cranes, bucket trucks, pulling mechanisms for new wire, excavators, loaders, and construction support vehicles. Wetland resources will be field delineated and avoided to the extent practicable. Further avoidance and mitigation strategies will be developed as conceptual plans progress.

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/41.154511552637345N73.24306436623502W



Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on May 15, 2017. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

- 1. Is the action authorized, funded, or being carried out by a Federal agency? *No*
- 2. Will your activity purposefully **Take** northern long-eared bats? *No*
- Is the project action area located wholly outside the White-nose Syndrome Zone?
 Automatically answered
 No
- 4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

6. Will the action involve Tree Removal?

No

0

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

Estimated total acres of forest conversion:
 If known, estimated acres of forest conversion from April 1 to October 31
 If known, estimated acres of forest conversion from June 1 to July 31

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

- 4. Estimated total acres of timber harvest
- 5. If known, estimated acres of timber harvest from April 1 to October 31 θ
- 6. If known, estimated acres of timber harvest from June 1 to July 31 0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

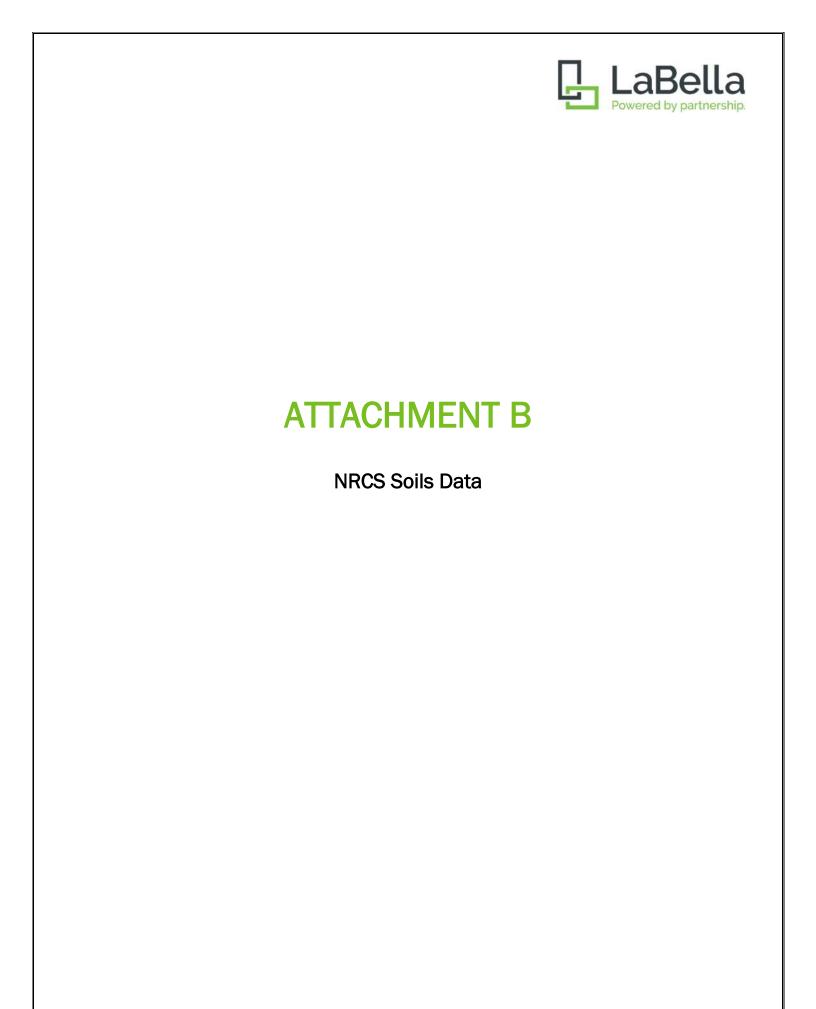
- 7. Estimated total acres of prescribed fire
- 0
- 8. If known, estimated acres of prescribed fire from April 1 to October 31 θ
- 9. If known, estimated acres of prescribed fire from June 1 to July 31 0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)? θ

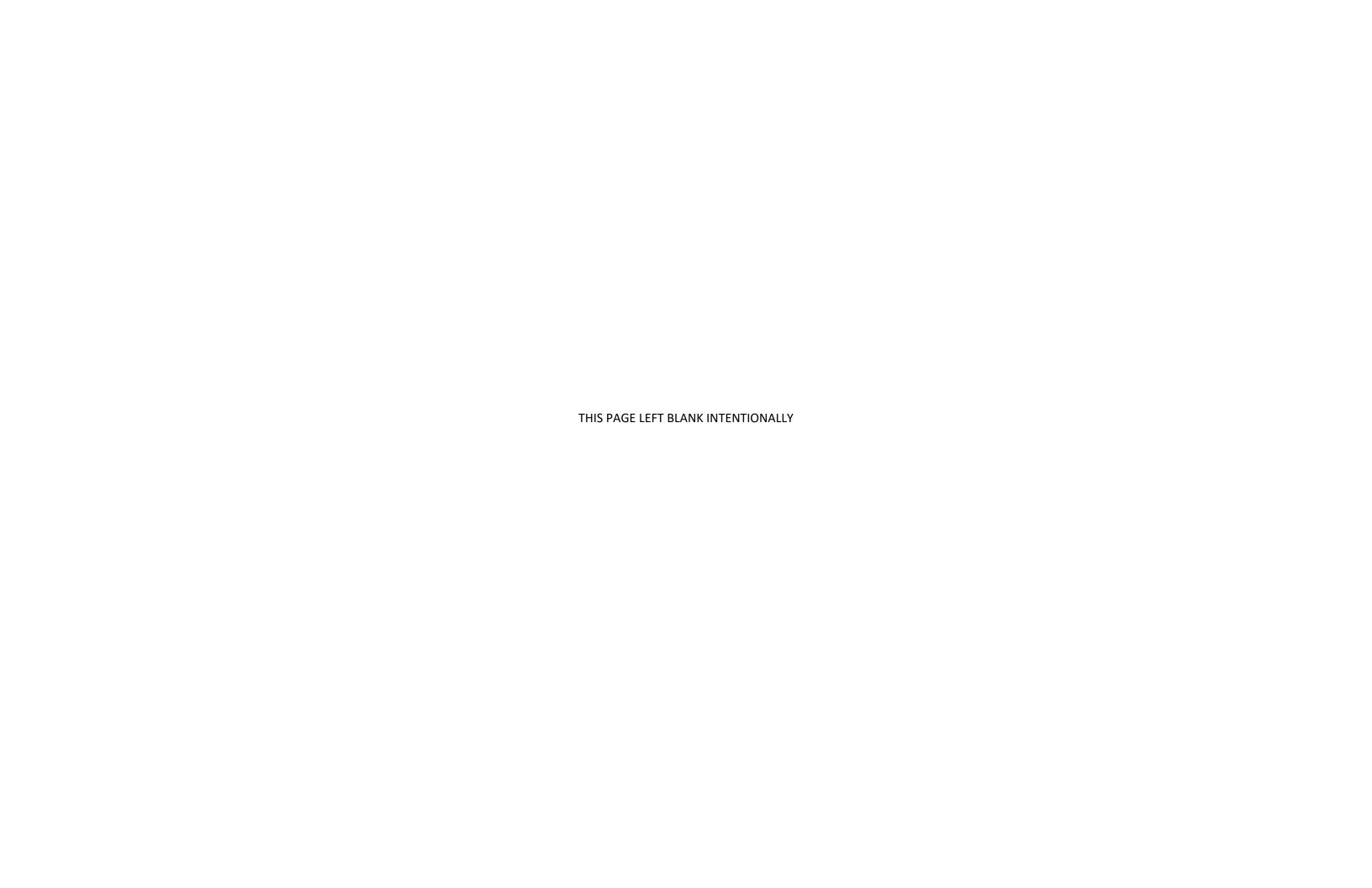
☐ Exclude all exotics * ● ○ Display points at broader scales when possible (2000 points max Exclude escapees Full species range ☐ Show Points Sooner Explore rich media Birding Hotspot Zoom Tool OLDER (30+ days) O Satellite Street O Hybrid RECENT BLACK ROCK 2,900 feet BROOKLAWN/ ST VINCENT WEST END/ 3,900 feet 7,000 feet Westport C Terrain (138) (E) +

Red Knot (Calidris canutus) - Birding Hotspots from EBird.org









MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut Survey Area Data: Version 21, Sep 7, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2020—Oct 31, 2020

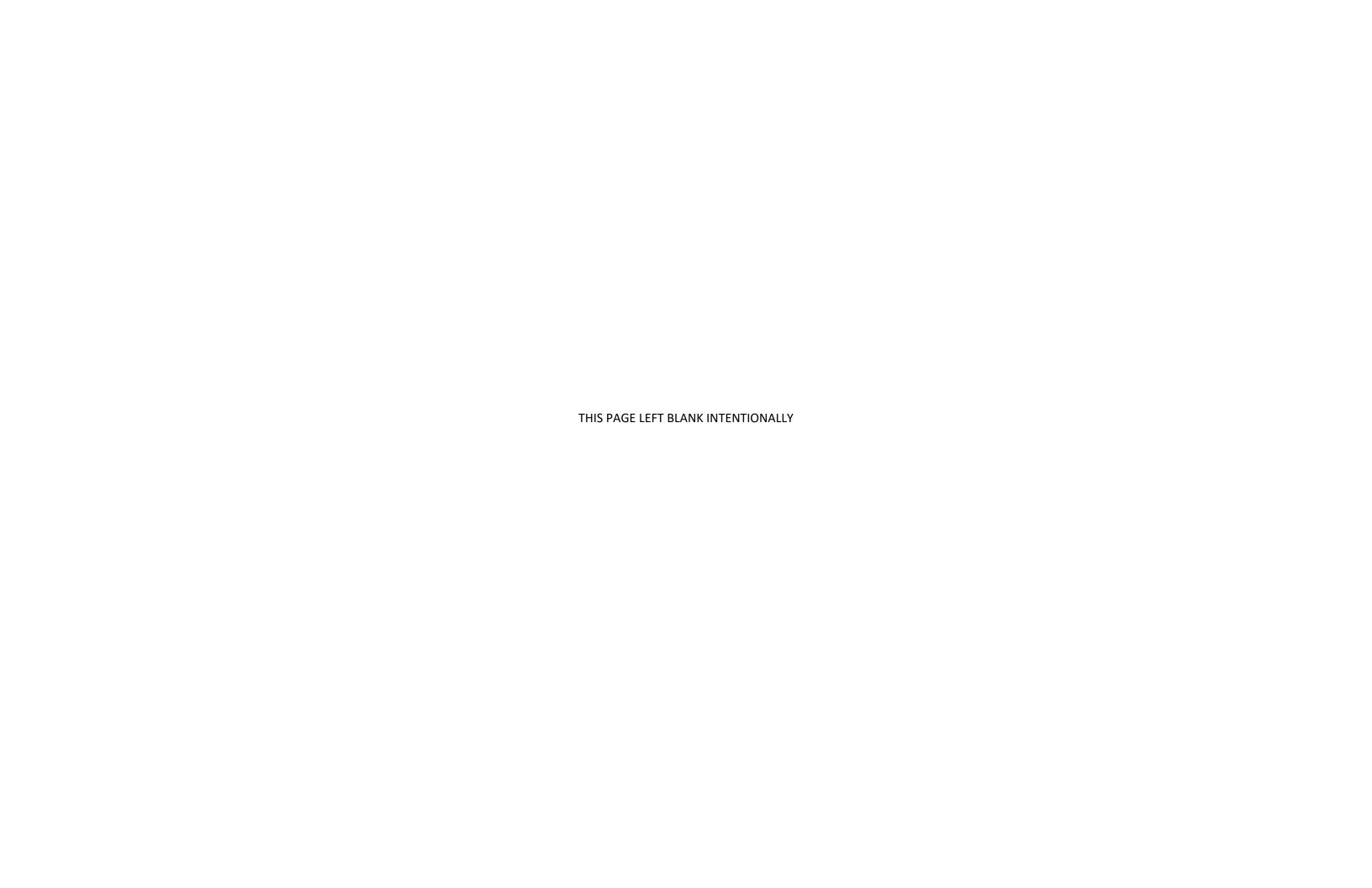
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Soil Map—State of Connecticut Fairfield-Congress

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
29B	Agawam fine sandy loam, 3 to 8 percent slopes	0.0	0.0%
98	Westbrook mucky peat, 0 to 2 percent slopes, very frequently flooded	0.3	0.2%
221A	Ninigret-Urban land complex, 0 to 5 percent slopes	0.1	0.1%
229B	Agawam-Urban land complex, 0 to 8 percent slopes	3.7	2.1%
273C	Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes	2.6	1.5%
306	Udorthents-Urban land complex	48.7	27.6%
307	Urban land	114.6	64.9%
308	Udorthents, smoothed	2.3	1.3%
W	Water	4.4	2.5%
Totals for Area of Interest		176.7	100.0%





MAP LEGEND

Area of Interest (AOI) Transportation Area of Interest (AOI) Rails Soils Interstate Highways **Soil Rating Polygons** US Routes Hydric (100%) Major Roads Hydric (66 to 99%) Local Roads \sim Hydric (33 to 65%) Background Hydric (1 to 32%) Aerial Photography Not Hydric (0%) Not rated or not available Soil Rating Lines Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Soil Rating Points** Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Water Features**

Streams and Canals

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut Survey Area Data: Version 21, Sep 7, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
29B	Agawam fine sandy loam, 3 to 8 percent slopes	0	0.0	0.0%
98	Westbrook mucky peat, 0 to 2 percent slopes, very frequently flooded	100	0.3	0.2%
221A	Ninigret-Urban land complex, 0 to 5 percent slopes	2	0.1	0.1%
229B	Agawam-Urban land complex, 0 to 8 percent slopes	8	3.7	2.1%
273C	Urban land-Charlton- Chatfield complex, rocky, 3 to 15 percent slopes	5	2.6	1.5%
306	Udorthents-Urban land complex	0	48.7	27.6%
307	Urban land	0	114.6	64.9%
308	Udorthents, smoothed	0	2.3	1.3%
W	Water	0	4.4	2.5%
Totals for Area of Inter	rest		176.7	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

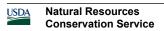
The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.



Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

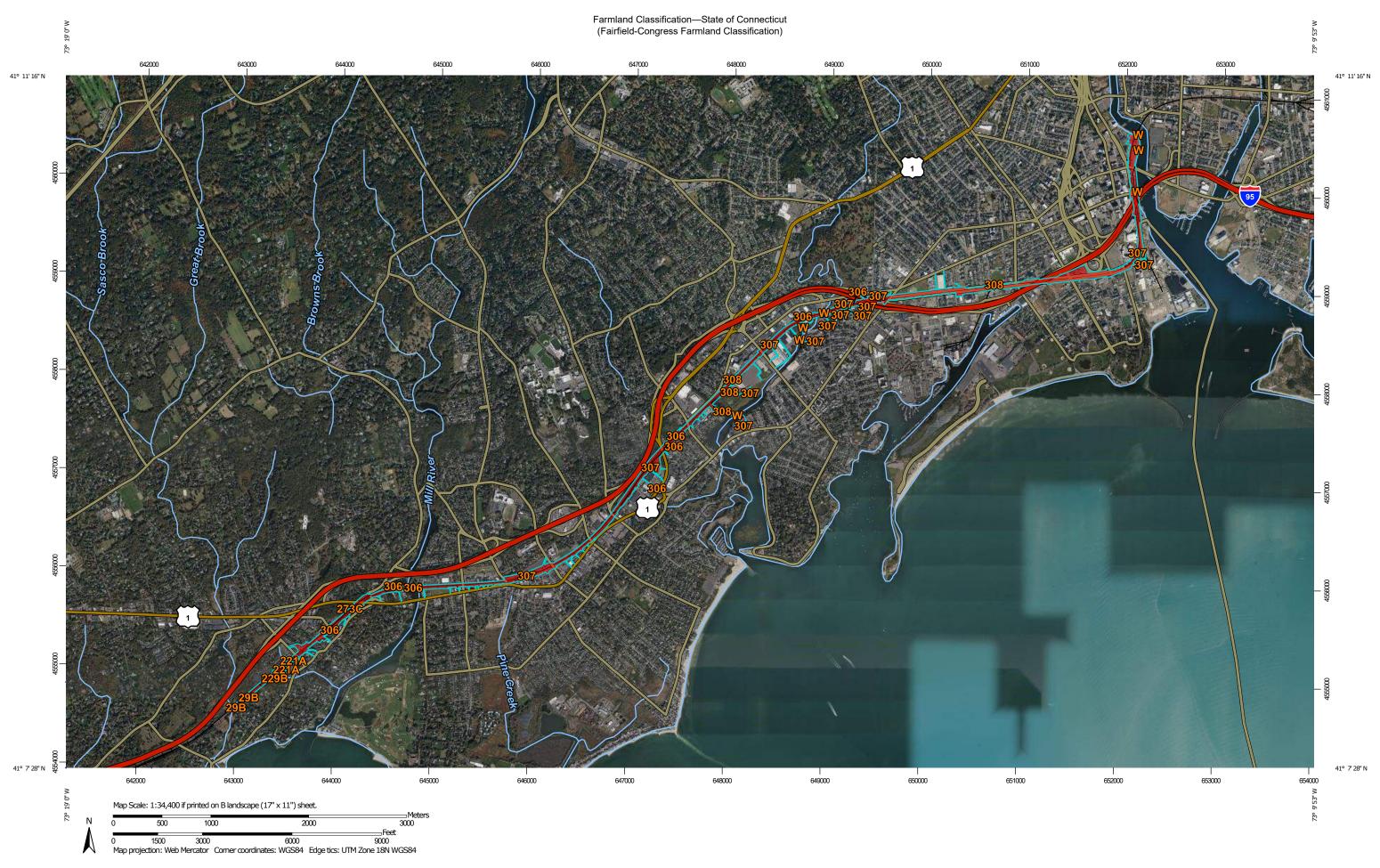
Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

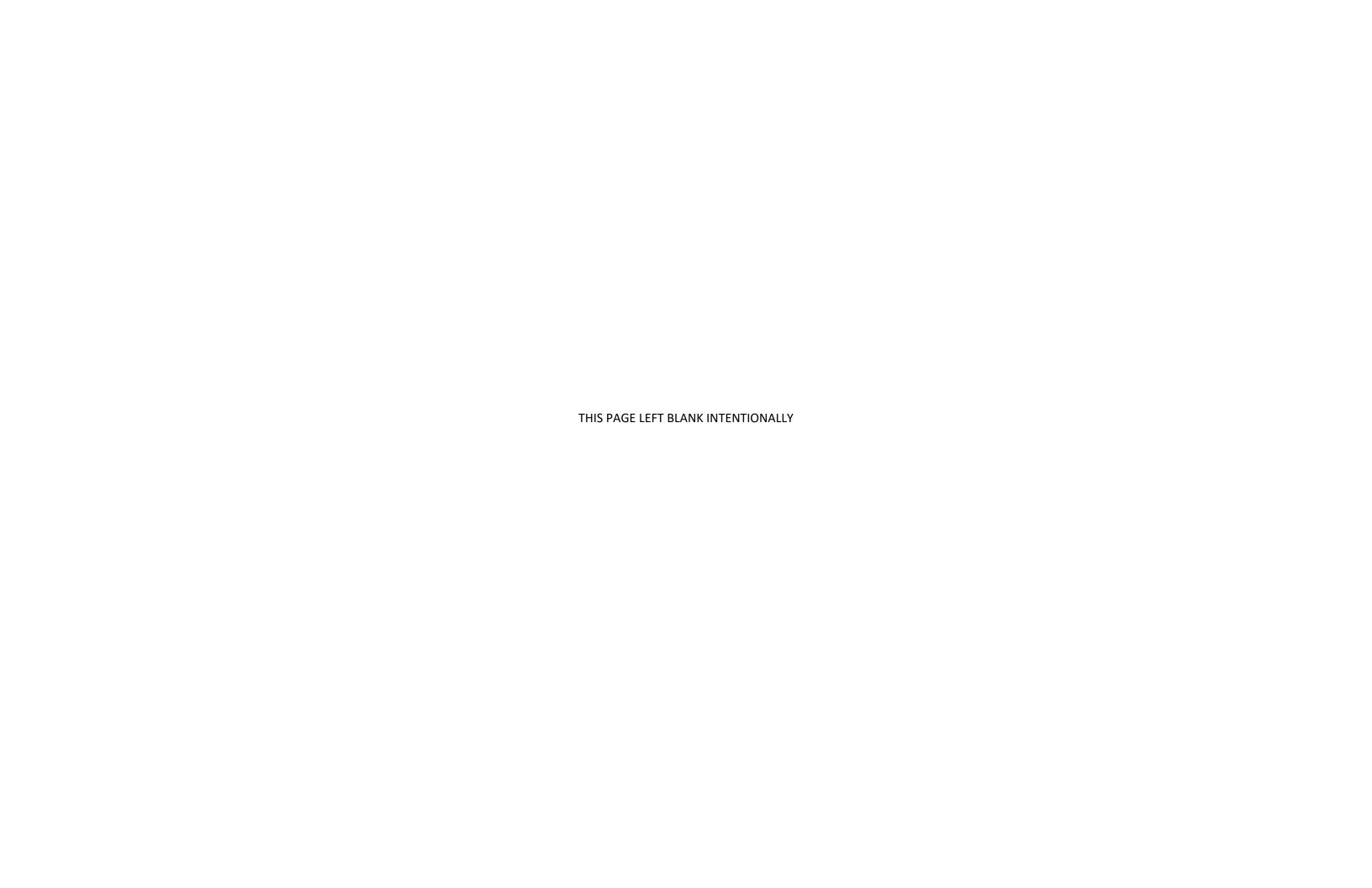
Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower





			MA	AP LEGEND			
Area of Int	erest (AOI) Area of Interest (AOI)	Prime farmland if subsoiled, completely		Farmland of statewide importance, if drained and	Farmland of statewide importance, if irrigated		Farmland of unique importance
Soils	, and of minorant (No.)	 removing the root inhibiting soil layer		either protected from flooding or not frequently flooded during the	 and reclaimed of excess salts and sodium		Not rated or not available
Soil Rati	ng Polygons	Prime farmland if irrigated and the product of I (soil		growing season	Farmland of statewide importance, if drained or	Soil Ra	ting Lines
	Not prime farmland	erodibility) x C (climate		Farmland of statewide	either protected from	-	Not prime farmland
	All areas are prime farmland	 factor) does not exceed 60		importance, if irrigated and drained	flooding or not frequently flooded during the growing season	~	All areas are prime farmland
	Prime farmland if drained Prime farmland if	Prime farmland if irrigated and reclaimed of excess salts and sodium		Farmland of statewide importance, if irrigated and either protected from	Farmland of statewide importance, if warm	-	Prime farmland if drained
	protected from flooding or not frequently flooded	Farmland of statewide importance		flooding or not frequently flooded during the	enough, and either drained or either	-	Prime farmland if protected from flooding
	during the growing season	Farmland of statewide importance, if drained		growing season Farmland of statewide	protected from flooding or not frequently flooded during the growing		or not frequently flooded during the growing season
	Prime farmland if irrigated Prime farmland if drained	Farmland of statewide importance, if protected		importance, if subsoiled, completely removing the root inhibiting soil layer	season Farmland of statewide	***	Prime farmland if irrigated
	and either protected from flooding or not frequently	from flooding or not frequently flooded during		Farmland of statewide importance, if irrigated	importance, if warm enough	~	Prime farmland if drained and either
	flooded during the growing season	the growing season Farmland of statewide importance, if irrigated		and the product of I (soil erodibility) x C (climate	Farmland of statewide importance, if thawed		protected from flooding or not frequently flooded
	Prime farmland if irrigated and drained	importance, ii imgateu		factor) does not exceed 60	Farmland of local importance		during the growing season Prime farmland if
	Prime farmland if irrigated and either protected from flooding or not frequently				Farmland of local importance, if irrigated	~	irrigated and drained Prime farmland if
	flooded during the growing season					~	irrigated and either protected from flooding or not frequently flooded during the growing season

Farmland Classification—State of Connecticut (Fairfield-Congress Farmland Classification)

,e.,e	Prime farmland if subsoiled, completely removing the root inhibiting soil layer	~	Farmland of statewide importance, if drained and either protected from flooding or not frequently	~	Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium	~~	Farmland of unique importance Not rated or not available		Prime farmland if subsoiled, completely removing the root inhibiting soil layer
***	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60	~	flooded during the growing season Farmland of statewide importance, if irrigated and drained	***	Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the	Soil Rat	ting Points Not prime farmland All areas are prime farmland	•	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
2 2 2 2 2		~ ~		<pre></pre>					
							flooded during the growing season		

Farmland Classification—State of Connecticut (Fairfield-Congress Farmland Classification)

The soil surveys that comprise your AOI were mapped at Farmland of statewide Farmland of statewide Farmland of unique importance, if drained and importance, if irrigated importance 1:12.000. either protected from and reclaimed of excess Not rated or not available Please rely on the bar scale on each map sheet for map flooding or not frequently salts and sodium flooded during the measurements. **Water Features** Farmland of statewide growing season importance, if drained or Streams and Canals Source of Map: Natural Resources Conservation Service Farmland of statewide either protected from Web Soil Survey URL: importance, if irrigated flooding or not frequently Transportation Coordinate System: Web Mercator (EPSG:3857) and drained flooded during the Rails growing season Farmland of statewide Maps from the Web Soil Survey are based on the Web Mercator Interstate Highways importance, if irrigated Farmland of statewide projection, which preserves direction and shape but distorts and either protected from importance, if warm **US Routes** distance and area. A projection that preserves area, such as the flooding or not frequently enough, and either Albers equal-area conic projection, should be used if more flooded during the drained or either Major Roads accurate calculations of distance or area are required. growing season protected from flooding or not frequently flooded Farmland of statewide Local Roads 00 This product is generated from the USDA-NRCS certified data during the growing importance, if subsoiled. as of the version date(s) listed below. season Background completely removing the root inhibiting soil layer Farmland of statewide Aerial Photography Soil Survey Area: State of Connecticut importance, if warm Farmland of statewide Survey Area Data: Version 21, Sep 7, 2021 enough importance, if irrigated and the product of I (soil Farmland of statewide Soil map units are labeled (as space allows) for map scales erodibility) x C (climate importance, if thawed 1:50,000 or larger. factor) does not exceed Farmland of local Date(s) aerial images were photographed: Oct 4, 2020—Oct importance 31, 2020 Farmland of local importance, if irrigated The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
29B	Agawam fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland	0.0	0.0%
98	Westbrook mucky peat, 0 to 2 percent slopes, very frequently flooded	Not prime farmland	0.3	0.2%
221A	Ninigret-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.1	0.1%
229B	Agawam-Urban land complex, 0 to 8 percent slopes	Not prime farmland	3.7	2.1%
273C	Urban land-Charlton- Chatfield complex, rocky, 3 to 15 percent slopes	Not prime farmland	2.6	1.5%
306	Udorthents-Urban land complex	Not prime farmland	48.7	27.6%
307	Urban land	Not prime farmland	114.6	64.9%
308	Udorthents, smoothed	Not prime farmland	2.3	1.3%
W	Water	Not prime farmland	4.4	2.5%
Totals for Area of Inter	rest	1	176.7	100.0%

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower



ATTACHMENT C

NDDB Determination Letters



79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

January 28, 2022

Todd Berman
The United Illuminating Company
100 Marsh Hill Rd
Orange, CT 06477
todd.berman@uinet.com

NDDB DETERMINATION NUMBER: 202200482

Project: Fairfield - Congress Railroad 115-kV Transmission Line Upgrade; along CTDOT MNR ROW, from Sasco Creek in Fairfield to UI Congress Street substation in Bridgeport, CT

Expiration: January 28, 2024

I have reviewed Natural Diversity Database (NDDB) maps and files regarding this project. According to our records, there are State-listed species (RCSA Sec. 26-306) that may occur within, or be affected by the proposed project area.

Peregrine falcon (Falco peregrinus)- State Threatened

Location: I-95 bridge over the Pequonnock River in Bridgeport

his falcon nests from April through July and is very susceptible to human disturbance during this time. Peregrine falcons are very territorial during the breeding season and will make their presence known if in close proximity to a nest site. The wildlife division recommends a 660' setback from nests with no public access. To determine if a nest in your area is active this year contact the DEEP Wildlife Biologist coordinating Peregrine falcon monitoring (Brian.hess@ct.gov).

• Do not conduct work between April- July within 330 feet (approximately 100 meters) of active nests that are out of line of sight, or within 660 feet (approximately 200 meters) from nests that are in the line of sight of nests.

Blueback herring (Alosa aestivalis)- State Special Concern

There are records of Blueback herring (*Alosa aestivalis*) in the Mill River in Fairfield. If any in-water work is planned you may need to consult with a Fisheries Biologist. DEEP Fisheries Biologists are routinely involved in pre-application consultations with regulatory staff and applicants in order to identify potential fisheries issues and work with applicants to mitigate negative effects, including to endangered species. If you have not already talked with a Fisheries Biologist about your project, you may contact the Permit Analyst assigned to process your application for further information, including the contact information for the Fisheries Biologist assigned to review your application.

This is determination is valid for two years. Please submit an updated NDDB Request for Review if the scope of the proposed work changes or if work has not begun by expiration date.

Natural Diversity Database information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Bureau of Natural Resources and

cooperating units of DEEP, independent conservation groups, and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated in the NDDB as it becomes available.

Please contact me if you have any questions (shannon.kearney@ct.gov). Thank you for consulting with the Natural Diversity Database and continuing to work with us to protect State-listed species.

Sincerely, /s/ Shannon B. Kearney Wildlife Biologist 79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

September 18, 2019

Donald Smith BL Companies 355 Research Parkway Meriden, CT 06450 dsmith@blcompanies.com

Project: Preliminary Assessment for Electric Transmission Line Upgrades between Sasco Creek in Fairfield to Congress Substation in Bridgeport, CT NDDB Preliminary Assessment No.: 201910756

Dear Mr. Smith,

I have reviewed Natural Diversity Database maps and files regarding the area delineated on the map provided for a preliminary assessment of electric transmission line upgrades within the CTDOT railroad right-of-way between Sasco Creek in Fairfield to Congress Street Substation in Bridgeport, Connecticut. According to our records there are known extant populations of State Threatened Peregrine falcon (*Falco peregrinus*) and State Special Concern Blueback herring (*Alosa aestivalis*) that occur within the boundaries of this project.

A pair of Peregrine falcons (*Falco peregrinus*) are known to nest on the I-95 bridge over the Pequonnock River in Bridgeport. Work in this area will be restricted to the non-nesting season, generally August through March.

There are records of Blueback herring (*Alosa aestivalis*) in the Mill River in Fairfield. If any in-water work is planned you may need to consult with a Fisheries Biologist. DEEP Fisheries Biologists are routinely involved in pre-application consultations with regulatory staff and applicants in order to identify potential fisheries issues and work with applicants to mitigate negative effects, including to endangered species. If you have not already talked with a Fisheries Biologist about your project, you may contact the Permit Analyst assigned to process your application for further information, including the contact information for the Fisheries Biologist assigned to review your application.

Please be advised that this is a preliminary review and not a final determination. A more detailed review will be necessary to move forward with any environmental permit applications submitted to DEEP for the proposed project. **This preliminary assessment letter cannot be used or submitted with permit applications at DEEP**. This letter is valid for one year.

To prevent impacts to State-listed species, field surveys of the site should be performed by a qualified biologist with the appropriate scientific collecting permits at a time when these target species are identifiable. A report summarizing the results of such surveys should include:

- 1. Survey date(s) and duration
- 2. Site descriptions and photographs
- 3. List of component vascular plant and animal species within the survey area (including scientific binomials)

- 4. Data regarding population numbers and/or area occupied by State-listed species
- 5. Detailed maps of the area surveyed including the survey route and locations of State listed species
- 6. Conservation strategies or protection plans that indicate how impacts may be avoided for all state listed species present on the site
- 7. Statement/résumé indicating the biologist's qualifications. Please be sure when you hire a consulting qualified biologist to help conduct this site survey that they have the proper experience with target taxon and have a CT scientific collectors permit to work with state listed species for this specific project.

The site surveys report should be sent to our CT DEEP-NDDB Program (deep.nddbrequest@ct.gov) for further review by our program biologists along with an updated request for another NDDB review. Incomplete reports may not be accepted.

If you do not intend to do site surveys to determine the presence or absence of state-listed species, then you should presume species are present and let us know how you will protect the state-listed species from being impacted by this project. You may submit these best management practices or protection plans with your new request for an NDDB review. After reviewing your new NDDB request form and the documents describing how you will protect this species from project impacts we will make a final determination and provide you with a letter from our program to use with DEEP-Permits.

Natural Diversity Database information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey, cooperating units of DEEP, landowners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substitutes for onsite surveys necessary for a thorough environmental impact assessment. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits.

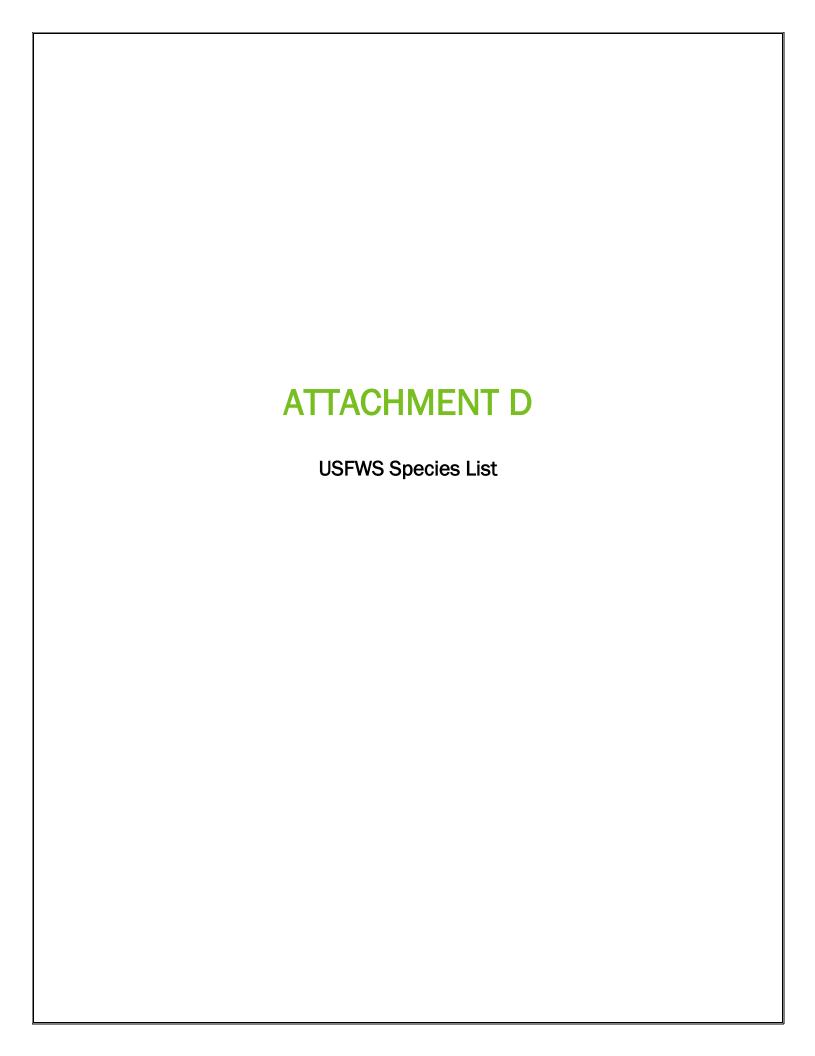
Please contact me if you have further questions at (860) 424-3378, or karen.zyko@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Karen Zyko

Kaun zh

Environmental Analyst







United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To: December 08, 2022

Project Code: 2022-0019924

Project Name: Fairfield to Congress Rebuild

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

Please visit the "New England Field Office Endangered Species Project Review and Consultation" website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review

NOTE Please <u>do not</u> use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat Update - Additionally, please note that on March 23, 2022, the Service published a proposal to reclassify the northern long-eared bat (NLEB) as endangered under the Endangered Species Act. The U.S. District Court for the District of Columbia has ordered the Service to complete a new final listing determination for the NLEB by November 2022 (Case 1:15-cv-00477, March 1, 2021). The bat, currently listed as threatened, faces extinction due to the range-wide impacts of white-nose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across the continent. The proposed reclassification, if finalized, would remove the current 4(d) rule for the NLEB, as these rules may be applied only to threatened species. Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective (anticipated to occur by December 30, 2022). If your project may result in incidental take of NLEB after the new listing goes into effect this will first need to be addressed in an updated consultation that includes an Incidental Take Statement. If your project may require re-initiation of consultation, please contact our office for additional guidance.

Additional Info About Section 7 of the Act

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/service/section-7-consultations

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the

ESA. The species' occurrence on an official species list does not convey a requirement to consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

https://www.fws.gov/program/migratory-bird-permit

https://www.fws.gov/library/collections/bald-and-golden-eagle-management

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

Official Species List

12/08/2022

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 (603) 223-2541

Project Summary

Project Code: 2022-0019924

Project Name: Fairfield to Congress Rebuild

Project Type: Transmission Line - New Constr - Above Ground

Project Description: UI is investigating upgrades to existing electric transmission lines and

poles located within the CT DOT railroad ROW. These upgrades involve the installation of new monopole structures within or near the existing CT

DOT railroad ROW between Fairfield and Bridgeport, CT.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.152500700000004,-73.2456563832737,14z



Counties: Fairfield County, Connecticut

12/08/2022 3

Endangered Species Act Species

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered

Birds

NAME	STATUS
Red Knot Calidris canutus rufa	Threatened
There is proposed critical habitat for this species.	
Species profile: https://ecos.fws.gov/ecp/species/1864	
Roseate Tern Sterna dougallii dougallii	Endangered

Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i>	Candidate

Monarch Butterfly *Danaus plexippus*

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Agency: LaBella Associates Name: Meredith Ellis Address: LaBella Associates

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