

August 30, 2022

APT Project No.: CT14113400

Revised March 13, 2023

Client: Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Site Name: Wilton South CT

Site Address: 180 School Road, Wilton, Connecticut

Date of Investigation: 6/30/2022

Project Description: Client proposes a monopole telecommunications tower facility on the town-owned student transportation parking yard.

Field Conditions: **Weather:** sunny, mid 80's **Soil Moisture:** dry to moist

Wetland/Watercourse Delineation Methodology¹:

Connecticut Inland Wetlands and Watercourses

Municipal Upland Review Area:

Wetlands: 100 feet

Watercourses: 100 feet

The wetlands inspection was performed by²:



Matthew Gustafson, Registered Soil Scientist

Enclosures: Wetland Delineation Field Forms & Wetland Inspection Map

This report is provided as a brief summary of findings from APT's wetland investigation of the referenced Study Area that consists of proposed development activities and areas generally within 200 feet.³ If applicable, APT is available to provide a more comprehensive wetland impact analysis upon receipt of site plans depicting the proposed development activities and surveyed location of identified wetland and watercourse resources.

¹ Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

² All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

³ APT has relied upon the accuracy of information provided by Verizon Wireless and its contractors regarding proposed lease area and access road/utility easement locations for identifying wetlands and watercourses within the Study Area.

Attachments

- Wetland Delineation Field Forms
- Wetland Inspection Map

Wetland Delineation Field Form

Wetland I.D.:	Wetland 1	
Flag #'s:	WF 1-01 to 1-15	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated/seepage <input checked="" type="checkbox"/>	Seasonally Saturated/perched <input checked="" type="checkbox"/>
Comments: Wetland 1 is characterized by seasonal saturation resulting from hill side seepage that settles in a topographic low position with shallow seasonal flooding.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input checked="" type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: Primarily located in a forested setting with areas of historic alteration as evident by the dominance of invasive species present and cleared scrub/shrub habitats.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input type="checkbox"/> Potential <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: Located at the base of the hillslope within Wetland 1, an area with evidence of seasonal flooding was present and has the potential to support vernal pool breeding; no inundation was observed at the time of inspection. It is recommended that surveys be performed to confirm the presence/absence of vernal pool breeding during the spring 2023 vernal pool breeding season.	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland soils: Ridgebury, Leicester, and Whitman soils (soil unit 3) Upland soils: Canton and Charlton fine sandy loams (soil unit 60); Woodbridge fine sandy loam (soil unit 45); Udorthents-Urban land complex (soil unit 306)		

DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	Jewelweed (<i>Impatiens capensis</i>)
Spicebush (<i>Lindera benzoin</i>)	Green Ash (<i>Fraxinus pennsylvanica</i>)
Sensitive Fern (<i>Onoclea sensibilis</i>)	Fox Grape (<i>Vitis labrusca</i>)
Multiflora Rose* (<i>Rosa multiflora</i>)	American Elm (<i>Ulmus americana</i>)
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

Wetland 1 consists of a forested wetland system located in the north/northwestern portion of the subject property, dominated by red maple, green ash and American elm. Wetland hydrology results from a shallow glacial till hardpan that results in seasonal perched shallow groundwater and development of poorly drained soils. Hillside seepage also contributes to the hydrology of this wetland. A dominance of hydrophytic (wetland) vegetation within the herbaceous and shrub layers is comprised mainly of spicebush, skunk cabbage, jewelweed, and sensitive fern throughout the delineated wetland. Evidence of seasonal flooding was present in the western corner of the complex in a topographic depression at the base of the hillslope. Indicators included water-stained leaves, water-stained/butressed roots, and a localized topographic depression. This system generally drains northeast to southwest with a gentle gradient within a shallow slope-break.

Wetland Delineation Field Form

Wetland I.D.:	Wetland 2	
Flag #'s:	WF 2-01 to 2-08	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated/seepage <input type="checkbox"/>	Seasonally Saturated/perched <input checked="" type="checkbox"/>
Comments: Evidence of seasonal flooding with buttressed roots, water-stained leaves and moss trim lines were observed within interior areas Wetland 2 with bordering seasonally saturated soils.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: This forest dominant wetland is characterized by a white oak and red maple dominant overstory.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input type="checkbox"/> Potential <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: Strong evidence of seasonal flooding was present in the form of water-stained leaves/tree bases exceeding 1 foot in inundation depth; no inundation was observed at the time of inspection. which has the potential to support obligate vernal pool species. It is recommended that surveys be performed to confirm the presence/absence of vernal pool breeding during the spring 2023 vernal pool breeding season.	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland soils: Ridgebury, Leicester, and Whitman soils (soil unit 3) Upland soils: Canton and Charlton fine sandy loams (soil unit 60); Woodbridge fine sandy loam (soil unit 45); Udorthents-Urban land complex (soil unit 306)		

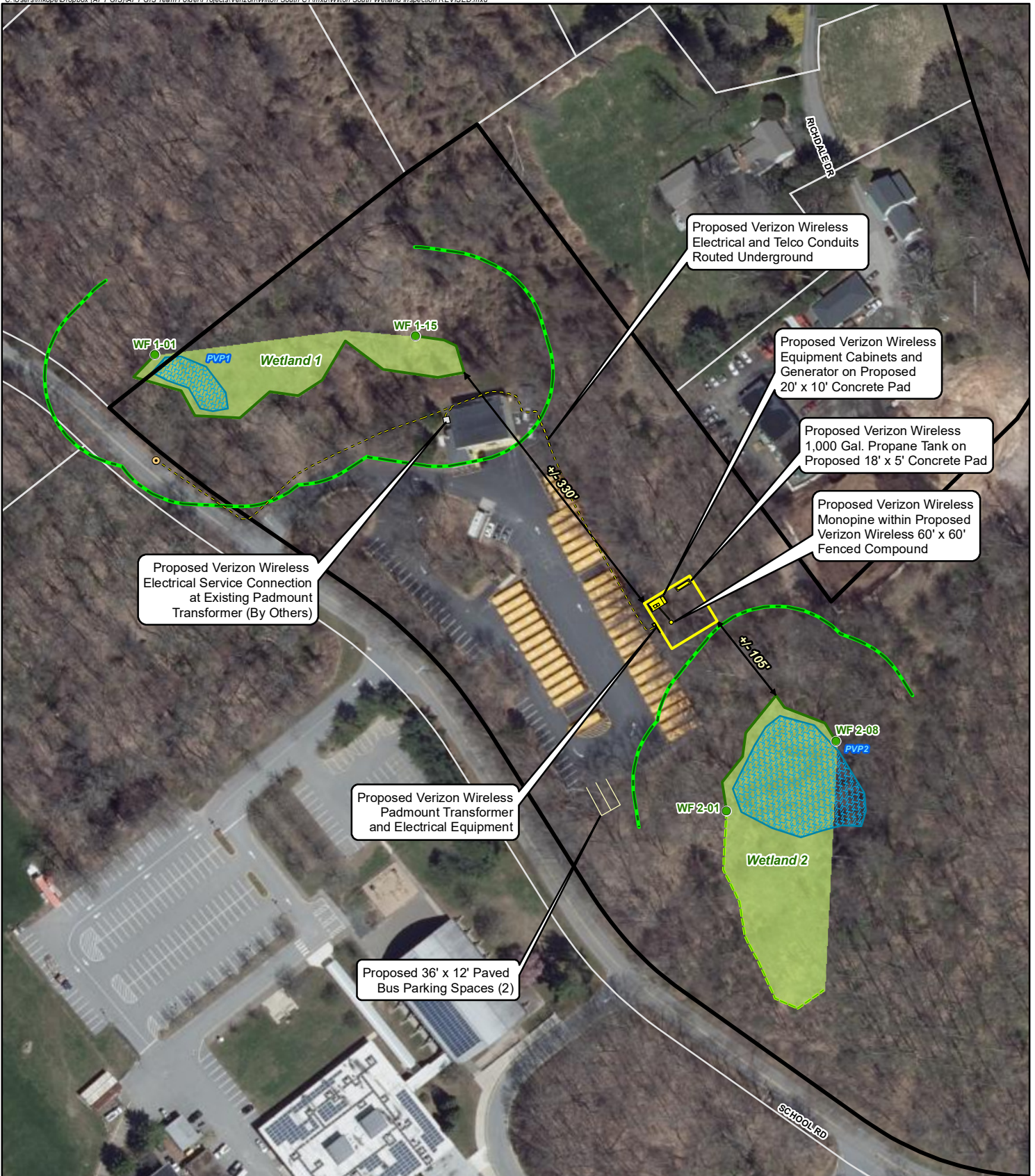
DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	Highbush Blueberry (<i>Vaccinium corymbosum</i>)
Spicebush (<i>Lindera benzoin</i>)	White Oak (<i>Quercus alba</i>)
Sensitive Fern (<i>Onoclea sensibilis</i>)	Tussock Sedge (<i>Carex stricta</i>)
Bladder sedge (<i>Carex intumescens</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

Wetland 2 consists of a forested wetland system located in the southeastern portion of the subject property, dominated by red maple and white oak. Strong evidence of seasonal flooding was present within this wetland that is positioned in a distinct topographic depression. Water-stained leaves, buttressed roots and moss trim lines on trees within Wetland 2 are strong indicators of seasonal hydrology and inundation depths. A dominance of hydrophytic (wetland) vegetation within the herbaceous and shrub layer is comprised mainly of spicebush, highbush blueberry, sensitive fern, tussock and bladder sedge throughout the delineated wetland. This feature generally drains southeast within a broad forested seep system that extends onto adjacent property.



Legend

- Proposed Verizon Wireless Compound
- Existing Equipment (By Others)
- Subject Property
- Proposed Verizon Wireless Equipment
- Approximate Parcel Boundary
- Existing Utility Pole (By Others)
- Proposed Verizon Wireless Conduit
- 100' Upland Review Area
- Approximate Wetland Boundary
- Delineated Wetland Boundary
- Approximate Wetland Area
- Potential Vernal Pool

Wetland Inspection Map

Proposed Wireless Telecommunications Facility
 Wilton South CT
 180 School Road
 Wilton, Connecticut

Map Notes:
 Base Map Source: 2019 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 150 feet
 Map Date: March 2023

