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Biodiversity Studies • Wetland Delineation & Assessment • Habitat Management • GIS Mapping • Permitting • Forestry

WETLANDS / WATERCOURSES DELINEATION REPORT

Date of Work: 11/23/2021

Client: Dennis Goderre

Project Location: 202 & 196 Flanders Rd, East Lyme

BL Companies
355 Research Parkway
Meriden, CT 06450

IDENTIFICATION OF WETLANDS AND WATERCOURSES RESOURCES

Wetlands and watercourses present on property? Yes No

<u>Wetlands:</u>	<u>Watercourses:</u>	<u>Identification Method:</u>
Inland Wetlands <input checked="" type="checkbox"/>	Perennial Streams <input checked="" type="checkbox"/>	Auger and Spade <input checked="" type="checkbox"/>
Tidal Wetlands <input type="checkbox"/>	Intermittent Watercourses <input type="checkbox"/>	Backhoe Pits <input type="checkbox"/>

Numbering Sequences:

Wetland Plant Communities Present:

1-20

Forest
 Scrub-Shrub
 Wet Meadow
 Marsh
 Upland/Streamside

Definitions and methodology for identification of state regulated wetlands & watercourses

Wetlands and watercourses are regulated in the State of Connecticut General Statutes, Chapter 440, sections 22a-28 to 22a-45. The Statutes are divided into the Inland Wetlands and Watercourses Act (sections 22a-36 to 22a-45) and the Tidal Wetlands Act (sections 22a-28 to 22a-35). Inland Wetlands "means land, including submerged land, not regulated pursuant to sections 22a-28 to 22a-35, inclusive, which consists of any of the soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey, as may be amended from time to time, of the National Resources Conservation Service (NRCS) of the United States Department of Agriculture" section 22a-38(15). Watercourses "means 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 this state or any portion thereof, not regulated pursuant to sections 22a-28 to 22a-35, inclusive. Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) Evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation" section 22a-38(16). Tidal Wetlands are defined as "those areas which border on or lie beneath tidal waters, such as, but not limited to banks, bogs, salt marsh, swamps, meadows, flats, or other low lands subject to tidal action, including those areas now or formerly connected to tidal waters, and whose surface is at or below an elevation of one foot above local extreme high water; and upon which may grow or be capable of growing some, but not necessarily all of the following" (includes plant list) section 22a-29(2).

Wetland Soils

Wetland soils consist of the Rippowam series. The Rippowam series consists of very deep, poorly drained loamy soils formed in alluvial sediments. They are nearly level soils on flood plains subject to frequent flooding. Permeability is moderate or moderately rapid in the loamy layers and rapid or very rapid in the underlying sandy materials.

Non-Wetland Soils

The non-wetland soils are classified as Udorthents. Udorthents is a miscellaneous land type used to denote moderately well to excessively drained earthen material which has been so disturbed by cutting, filling, or grading that the original soil profile can no longer be discerned.

SUMMARY of FINDINGS

A single wetland occurs on the Site, as illustrated on the attached sketch map and shown below in two representative photographs. The wetland consists of floodplain wetlands bordering the Pattagansett River which lies to the west. The dominant wetland cover type is forested, with a narrow band of scrub-shrub wetland along the wetland-upland interface (see right side photo). A stormwater discharge pipe outlets to the wetland at wetland flag #13 (see left side photo).



If you have any questions regarding my findings, please feel free to contact me.

Eric Davison

Eric Davison
Certified Professional Wetland Scientist
Registered Soil Scientist

Attachment: Wetland Sketch Map

Wetland Sketch Map

Flanders Road, East Lyme

