CLA Engineers, Inc.
Civil • Structural • Survey
317 MAIN STREET • NORWICH, CT 06360 • (860) 886-1966 • (860) 886-9165 FAX

April 7, 2025

Town of Montville – Inland Wetlands Commission
C/O Stacy Radford, Zoning & Wetland
310 Norwich-New London Turnpike
Uncasville, CT 06382

RE: Town of Montville
Bridge Street Bridge Deck Replacement
CLA-7767D
Wetland/Soil Scientists Letter

To the Commission:

On behalf of the Town of Montville, CLA Engineers has performed a delineation and evaluation of the inland wetlands at the referenced site and assessed the site to provide a basis for determining the potential for impacts. The inland wetland boundary was delineated by Robert Russo CSS in November 2024. The wetland boundary and proposed development are shown on the plans prepared by CLA Engineers and submitted as part of this application. These data were augmented with additional online information from CTDEEP, USFWS, USGS, and the Town of Montville.

Site Setting

The site encompasses the bridge deck and former railroad grade immediately underneath it as well as the bridge approaches. The existing bridge deck is located approximately 165' east of the Bridge Street and Maple Avenue intersection. The bridge conveys Bridge Street over the former Central Vermont/New England Central Railroad tracks. The railroad tracks no longer exist below the bridge; over time the area has developed into inland wetlands.

The surrounding neighborhood is zoned Industrial (IND) per most recent update of the Town of Montville Zoning Map and consists of industrial land uses.

Soils

The upland soils mapped on the property by NRCS (USGS) are listed in the table below. Additional descriptive details are provided in Appendix A. Note that no wetland soil is mapped at the site.

Table 1 - Soil Types and Properties at the Bridge Street Site

Soil Series	Parent Material	Drainage Class	Texture/Characteristics
Hinckley loamy sand (39)	Coarse-loamy outwash	Poorly drained to very poorly drained	Sandy loam
Urban land (307)	Coarse-loamy lodgment till	Well drained	Fine sandy loam

The Hinckley series consists of very deep, excessively drained soils formed in glaciofluvial materials. They are nearly level through very steep soils on outwash terraces, outwash plains, outwash deltas, kames, kame terraces, and eskers.

Urban land comprises soils in areas with high population density, including impervious surfaces, human-transported materials, and altered soil properties, which differ significantly from traditional agricultural soils.

Wetland Characteristics

The wetlands at the site have formed in the excavation that was originally created for the railroad. As such it is a man-made wetland. Due to it being created in an industrialized area and being surrounded by development it lacks typical wetland functions.

Potential for Impacts

CLA notes that the proposed project involves work on the bridge itself and no permanent impacts to wetlands. If the project is performed per the plans and the proper best management measure maintained, CLA believes that there will be no adverse wetland impacts.

Very truly yours,
CLA Engineers, Inc.
Robert C Russo
Robert C. Russo
CSS

Attachments

Appendix A
Soils Maps

Soil Map—State of Connecticut, Eastern Part
(Bridge St Soils)

Map Scale: 1:3,170 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 45 90 180 270

Feet
0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- 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
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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, Eastern Part
Survey Area Data: Version 2, Aug 30, 2024

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

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
38C	Hinckley loamy sand, 3 to 15 percent slopes	11.7	25.5%
38E	Hinckley loamy sand, 15 to 45 percent slopes	1.8	3.8%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	6.0	13.2%
84D	Paxton and Montauk fine sandy loams, 15 to 25 percent slopes	11.8	25.6%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	1.5	3.4%
103	Rippowam fine sandy loam	2.2	4.8%
306	Udorthents-Urban land complex	4.7	10.2%
307	Urban land	6.2	13.5%
Totals for Area of Interest		**45.9**	**100.0%**