April 14, 2025

Mr. Wade Thomas, CPESC, CPSWQ, CPMSM
Nathan Jacobson and Associates
86 Main Street
Chester, CT 06412

RE: Wetland Delineation, Bolton Town Center SSDS, Bolton

Mr. Thomas,

At your request, I conducted an inspection south of the Bolton Town Library for the above-referenced project on April 10, 2025. The purpose of the inspection was to delineate Connecticut jurisdictional wetlands and watercourses. The inspection was conducted by a soil scientist according to the requirements of the Connecticut Inland Wetlands and Watercourses Act (P.A. 155). Inland wetlands include 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).

Wetlands were delineated by examining the upper 20” of the soil profile with a spade and auger. Those areas meeting the requirements noted above were marked with pink flags and numbered with the following sequence: WF 1/15. The delineated wetland is located in a wooded depression just south of the Bolton Town Library. This area receives stormwater inputs from surrounding uplands. The wetland is seasonally saturated and predominantly vegetated with red maple in the overstory and spicebush in the shrub layer. It appears to outlet to the east towards a catch basin along Toomey Road.

Digitally available soil survey information was obtained from the Natural Resources Conservation Service (refer to NRCS Soil Map, attached). The following is a description of wetland and upland soil types observed on the site.

Wetland soils consist of Ridgebury and Leicester soils. The Ridgebury series consists of very deep, somewhat poorly and poorly drained soils formed in glacial till derived mainly from granite, gneiss and schist. They are nearly level to gently sloping soils in low areas in uplands. This series includes phases that are poorly drained and the wetter part of somewhat poorly drained. A perched, fluctuating water table above the dense till saturates the solum to or near the surface for 7 to 9 months of the year. The Leicester series consists of very deep, poorly drained loamy soils formed in friable till. They are nearly level or gently sloping soils in drainageways and low-lying positions on hills. Depth to bedrock is commonly more than 6 feet. Rock fragments range from 5 to 35 percent by volume to a depth of 40 inches and up to 50 percent below 40 inches. Leicester soils have a water table at or near the surface much of the year.

The non-wetland soils were not examined in detail, except as was necessary to identify the wetland boundary. They generally consist of Paxton and Montauk fine sandy loams. The Paxton series consists of well drained loamy soils formed in subglacial till. The soils are very deep to bedrock and moderately deep to a densic contact (known locally as hardpan). They are nearly level to steep soils on till plains, hills, and drumlins. The depth to the densic contact and material is commonly 20 to 40 inches but the range includes 18 to 40 inches. Depth to bedrock is commonly more than 6 feet. Rock fragments range from 5 to 35 percent by volume. The Montauk series consists of very deep, well drained soils formed in glacial till derived primarily from granitic materials. These soils are on upland till plains and moraines. Slope ranges from 0 to 35 percent. The landscape in some areas has many closed depressions, some of which are filled by perennial ponds or wet spots. The soils formed in thick moderately coarse or medium textured glacial till mantles underlain by firm sandy till. Some areas have very stony or extremely stony surfaces. The potential for runoff is low to high. Permeability is moderate or moderately rapid in the solum and slow or moderately slow in the substratum.

Respectfully submitted,

Matthew Davison
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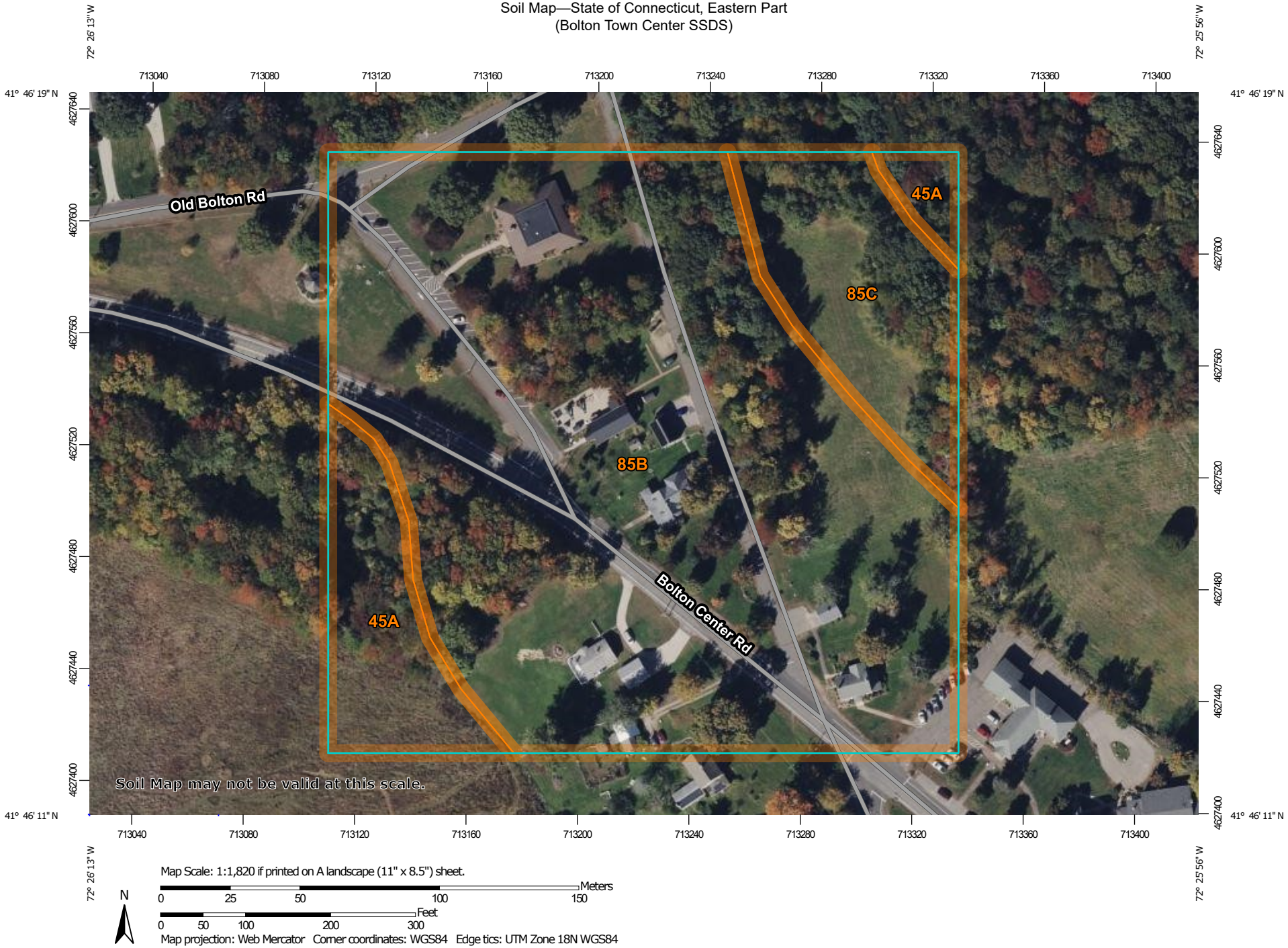
Attachments: (1) Wetland Photographs; (2) NRCS Soil Survey Mapping; (3) Wetland Delineation Sketch Map

Photo 1: View of wetland looking south from library

Photo 2: View of wetland looking west towards Old Bolton Road

Soil Map—State of Connecticut, Eastern Part
(Bolton Town Center SSDS)



Map Scale: 1:1,820 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 25 50 100 150

Feet
0 50 100 200 300

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.

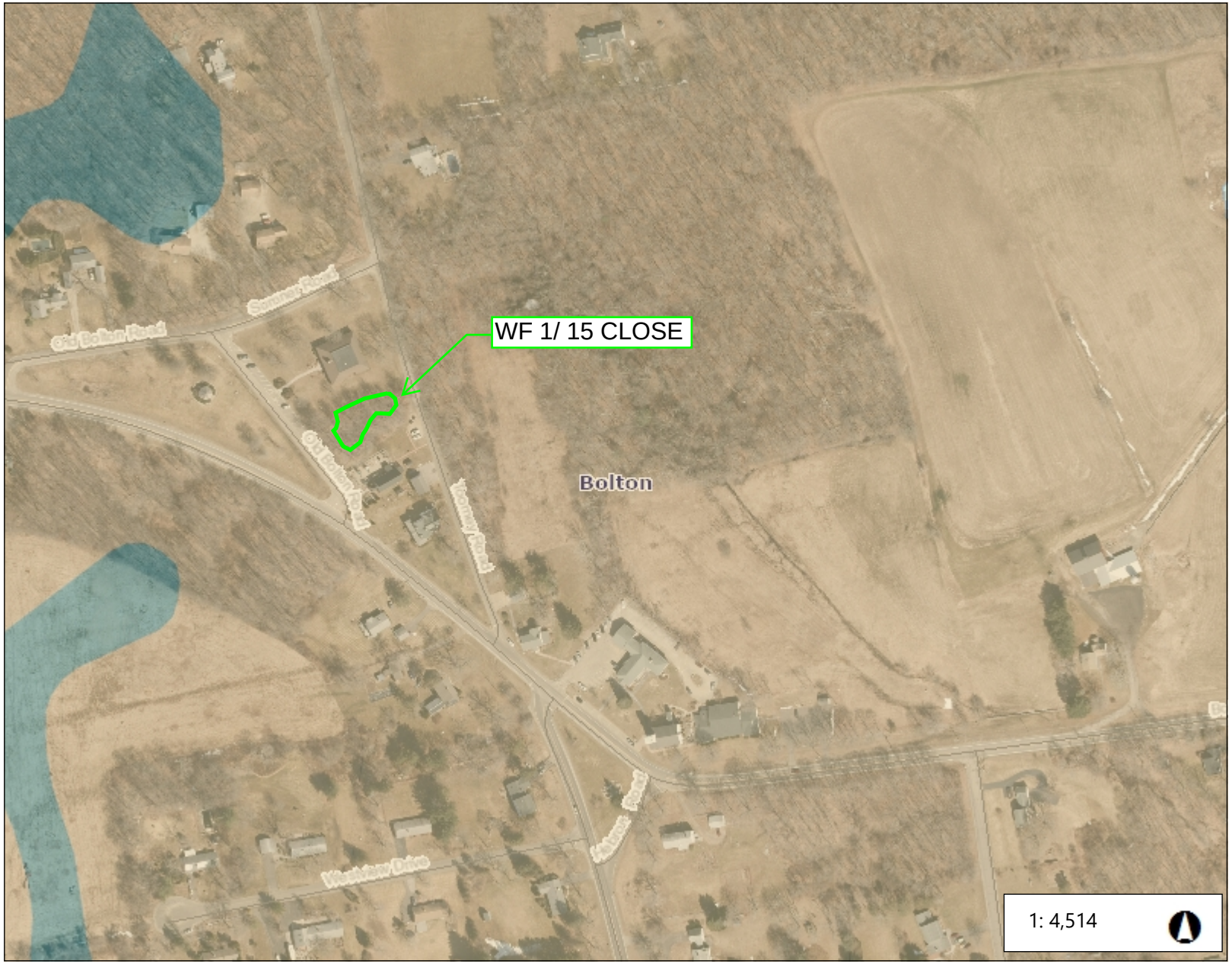
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	1.2	10.2%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	9.4	77.8%
85C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes, very stony	1.5	12.1%
Totals for Area of Interest		**12.1**	**100.0%**

WETLAND DELINEATION SKETCH MAP

CT Environmental Conditions Online

Bolton Town Center SSDS



Legend

- Town Boundary
  - State Boundary
  - Town Boundary
  - Coastline
- Soils Hydric Rating
  - Not Hydric (0%)
  - Hydric (1 - 32%)
  - Hydric (33 - 65%)
  - Hydric (66 - 99%)
  - Hydric (100%)
- Geographic Names7
- Geographic Place 3
- Airport
  - Airport
  - Heliport
- Railroad
- Streets
  - Interstate Highway
  - US Highway
  - State Highway
  - Primary limited-access
  - Ramp
  - Street
  - Ferry crossing
- County Line
  - State Boundary

Notes

0.1 0 0.07 0.1 Miles

THIS MAP IS NOT TO BE USED FOR NAVIGATION

This map is intended for general planning, management, education, and research purposes only. Data shown on this map may not be complete or current. The data shown may have been compiled at different times and at different map scales, which may not match the scale at which the data is shown on this map.