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Maureen Fitzgerald, Environmental Planner
Town of Waterford
15 Rope Ferry Road
Waterford, CT

June 19, 2021

RE: INLAND WETLAND SOILS AND WATERCOURSES INVESTIGATION,
AND DELINEATION, 394 WILLETS WAY/ 61/61A MYROCK AVENUE
WATERFORD, CT

Dear Ms. Fitzgerald:

Back in May of 2021, I sampled the soil along the proposed sanitary sewer gravity main location using a soil auger to a depth of two to three feet. Based on my field observations and using the guidelines established by the National Cooperative Soil Survey and as defined by the Connecticut General Statutes I delineated the inland wetland soils and watercourses in that location. I delineated the inland wetlands and watercourses using blue flagging numbered 97-150. My previous delineation ended at a corner of a stone wall with flag 96.

The inland wetland soils flags were delineated by field survey and are shown accurately on a site plan entitled: "Waterford Woods Site Modification, prepared for Waterford Woods, LLC (owner/applicant), Gravity Sewer Main Title Sheet, Scale 1"=20', dated 6/07/21, prepared by Yantic River Consultants LLC"

The inland wetland soils delineated along the proposed sanitary sewer line are classified as a Ridgebury, Leicester and Whitman fine sandy loam. These soils are poorly drained and very poorly drained and are located in depressions in glacial till uplands. These soils are mapped together as a complex because of their similar physical characteristics, use and management.

However, just to the west of the proposed crossing, (approximately 60 feet) the soils are classified as an Adrian and Palm muck that are often associated with stream terraces such as Fenger Brook. Surface water is often present in that vicinity. These deep organic soils will not be disturbed.

The Ridgebury soil complex has a black fine sandy loam surface layer that typically hosts seeds, rhizomes and bulbs for typical wetland plant species. This soil layer should be separated from the excavation of the sanitary sewer line from the subsurface mineral soil. That will ensure future propagation of native wetland plant species in the future. The installation of the sanitary sewer line if done correctly, using best management practices, including "double ditching", separating the organic soil from the mineral soil and putting them back in the proper position will be key to minimizing any impacts.

This wetland area is classified as a forested wetland general classification. Its functions include: groundwater recharge and discharge, sediment stabilization, nutrient removal and transformation, product export, and wildlife diversity. The vegetative over-story includes maples, cottonwood, willow, ash, black cherry and poplar. Shrub species include button bush, speckled alder, winterberry, spice bush, silky dogwood. The herbaceous layer includes sensitive fern, poison ivy, multiflora rose, and skunk cabbage.

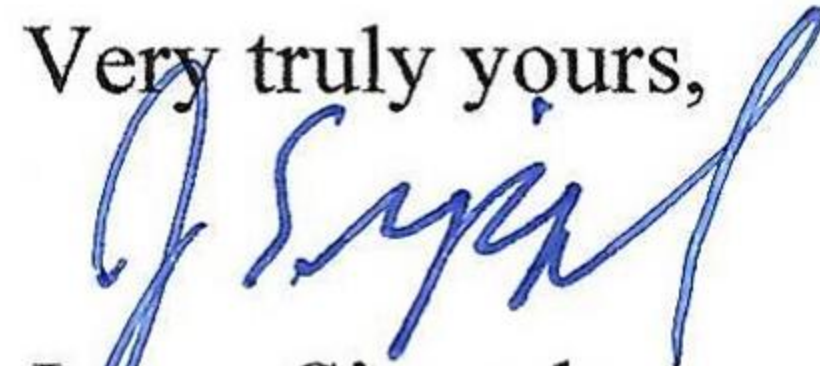
It is important to note that those existing wetland functions will continue to be present after the temporary disturbance for the installation of the sanitary sewer main. The project was designed to minimize impact as detailed in the wetland impact table and accompanying notes below.

As with any proposed project a comprehensive erosion and sedimentation control plan well designed and properly installed and maintained is the key to a successful project. Regular inspections should occur, especially after storm events of more than 1.5" of rain.

After reviewing the proposed sanitary sewer gravity main and the limits of its construction, and after reviewing of the proposed wetland impact tables, it is my professional opinion that the proposed construction activities will not have a significant adverse effect on the adjacent inland wetlands and/or watercourse on or off the site.

If you have any questions or require additional information, please contact me at the telephone number referenced above.

Very truly yours,



James Sipperly

Certified Soil Scientist, Society of Soil Scientists of Southern New England
Connecticut Wetland Scientist, Connecticut Association of Wetland Scientists