



IW #1315

Wetland Delineation • Wetland Assessment & Permitting • Wildlife & Botanical Surveys • Fisheries & Aquatics • GIS Mapping

June 21, 2023

Tara Ellef
205 Copper Ridge Road
Southington, CT

**RE: *Wetland and Watercourse Delineation Report
205 Copper Ridge Road, Southington***

Mrs. Ellef,

At your request, I conducted an inspection on the above-referenced property on 6-20-23 as depicted on the attached *Wetland Delineation Sketch Map*. 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). Watercourses means rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent. 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.

Soil types were determined by examining the upper 20" of the soil profile with an auger. Those areas meeting the requirements noted above were marked with blue flagging tape labeled "IWC" (intermittent watercourse) and numbered 1-14 and 15-18. Refer to *Wetland Delineation Sketch Map*, attached (note that the sketch map is for illustrative purposes only).

No wetlands are present on the property. A single intermittent watercourse occurring in two segments was delineated on the southern end of the property. The watercourse segments are separated by a filled and culverted segment. The watercourse channel averages approximately three feet in width. The centerline of the channel was demarcated. The upper reaches of the watercourse are anthropogenic in origin, originating from a culvert outlet in the side yard and draining west. This upper segment is well-defined, and the channel banks and bottom are formed with riprap. The watercourse flows west into the wooded portions of the property where it naturalizes, flowing down a steep talus slope. It terminates in the southwest corner of the property where the water infiltrates into the ground as the topography levels out.

Upland (Non-Wetland) Soil Types

The non-wetland soils were not examined in detail, except as was necessary to identify the wetland boundary. They generally consist of the Udorthents (developed areas of the property), Wethersfield The Wethersfield series consists of very deep, well drained loamy soils formed in dense glacial till on uplands. The soils are moderately deep to dense basal till. They are nearly level to steep soils on till plains, low ridges, and drumlins. Permeability is moderately rapid or moderate in the solum and slow or very slow in the dense substratum.

The Holyoke series consists of shallow, well drained and somewhat excessively drained soils formed in a thin mantle of till derived mainly from basalt and red sandstone, conglomerate, and shale. They are nearly level to very steep soils on bedrock controlled ridges and hills. Rock outcrops range from few to many. Hard bedrock is typically present within the upper 20" series, and the Holyoke-rock outcrop complex.

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

Respectfully submitted,



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Attachments: (1) Watercourse Photographs
(2) Wetland Delineation Sketch Map

WATERCOURSE PHOTOGRAPHS



Photo 1: View of naturalized portion of watercourse in the wooded southwestern portion of the property.



Photo 2: Anthropogenic segment of watercourse within side/rear yard along Femcliff Drive.

WETLAND DELINEATION SKETCH MAP

Wetland & Watercourse Sketch Map

205 Copper Ridge Rd, Southington

INTERMITTENT WATERCOURSE VISIBLE IN THIS AREA - IT IS LOCATED OFFSITE FLOWING NORTHWEST

NO WETLANDS ON LOWER SLOPE OF PROPERTY (WEST SIDE)

Culvert Inlet

Culvert Outlet

Culvert Outlet

Flags IWC 1-14

Flags IWC 15-18

205 Copper Ridge

Google Earth

200 ft

