

Soil Scientist Report

Rita Avenue | Cheshire, Connecticut
January 27, 2021 (Revised February 22, 2021)
SLR #15489.00001

The wetlands and watercourses on Rita Avenue Lot 3 were delineated by William Root, registered soil scientist, in July 2014. The wetlands and watercourses were delineated in accordance with the Town of Cheshire and state wetland and watercourse regulations. On January 15, 2021, SLR International Corporation (SLR) registered soil scientists completed a verification of the previously delineated wetlands and watercourses on this parcel and confirmed that the 2014 wetland boundary is still accurate as depicted on the project site plan.

The Natural Resources Conservation Service (NRCS) web soil survey identifies both the moderately well drained Sutton series and the well-drained Charlton and Chatfield complex on the subject parcel. No wetland soils are identified by the NRCS soil survey maps. Based on Mr. Root's delineation and our inspection, the wetland soils that were delineated on the property would classify as an Aquent. Aquent soils have been anthropogenically modified through excavation or filling and lack a natural soil horizon. The drainage class for these types of soils can range from very poorly drained to somewhat poorly drained. For this site, the soils would fall within the poorly drained category.

A depressional palustrine deciduous broad-leaved forested wetland that is primarily located on the adjacent property to the north drains south across the subject property and into a swale. The swale conveys surface water into a flared end inlet pipe on the bordering property. Dominant trees within the adjacent wetland include red maple (*Acer rubrum*) and yellow birch (*Betula alleghaniensis*). The understory is sparse. The depressional wetland is seasonally flooded as evidenced by dark stained leaves, water lines, and buttressed tree trunks. The upland buffer around the wetland system is predominantly mixed hardwood forest. Wetlands possess the capability of performing a variety of functions and values. Based on our observations, the wetlands/watercourses on this parcel provide limited functions and values, principally toxicant and sediment retention, nutrient transformation, and wildlife habitat.

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