JMM WETLAND CONSULTING SERVICES, LLC

23 Horseshoe Ridge Road Newtown, CT 06482 Phone: 203-364-0345

REPORT DATE: September 8, 2020
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ON-SITE SOIL INVESTIGATION REPORT

PROJECT NAME & SITE LOCATION:	JMM Job No.: 20-2662-SWN-9
Project Site	Field Investigation Date(s): 8/27/2020
818 Sullivan Avenue	Field Investigation Method(s):
South Windsor, Connecticut	Spade and Auger
	Backhoe Test Pits
	Other:
REPORT PREPARED FOR:	Field Conditions:
Mr. Allan Borghesi	Weather: Rain, 70's
Borghesi Building & Engineering Co., Inc.	Soil Moisture: Moist
2155 East Main Street	Snow Depth: N/A
Torrington, CT 06790	Frost Depth: N/A
Purpose of Investigation:	
	d
Wetland Mapping on Sketch Plan or	
 ✓ Wetland Delineation/Flagging in Fiel ✓ Wetland Mapping on Sketch Plan or High Intensity Soil Mapping by Soil ✓ Medium Intensity Soil Mapping from 	
Medium Intensity Soil Mapping from	USDA-NRCS Web Soil Survey Maps
Other:	• •
Base Map Source: USDA-NRCS Web Soil Surv	vey (attached)
Wetland Boundary Marker Series: JMM-1 to J	MM-9
	OT.
General Site Description/Comments: The site I	s located north of Sullivan Avenue, in South Windsor, CT.
The site is currently comprised of an existing ca	er wash facility, a residence, maintained lawn, landscaped prested upland areas, and forested, wet maintained lawn,
and wet meadow wetland areas (see Figure 1 a	ttached). Specifically, JMM review a portion of the overall
site for regulated wetlands at this time (JMM St	udy Area). The study area is located in the easternmost
portion of the site and within approximately 100-f	eet from any proposed activities. The soil types within the
study were found to be mainly disturbed through	nout the upland areas and primarily undisturbed within the
regulated wetland areas. The undisturbed soils	are derived from glaciolacustrine (i.e., stratified sand, silt
and clay) deposits. Any undisturbed upland soils	s were comprised of the moderately well drained Elmridge
(28) soil series. The disturbed upland soils wer	re mapped as the Udorthents-Urban Land (306) mapping
complex. The undisturbed wetland soils were	identified as the poorly to very poorly drained Scitico.
Shaker, and Maybid (9) soil series complex. The	e regulated areas associated with the study area consist of
a mix or wet maintained lawn and wet meadow (communities located along the northern and eastern parts etation observed within the study area's regulated areas
included such species as common elderherry	cattail, Joe-pye-weed, purple loosestrife, sedges, rushes,
grasses, sensitive fern, goldenrods, and New Yor	
gradest community golden and the tree	

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ON-SITE SOIL INVESTIGATION REPORT (CONTINUED)

PROJECT NAME & SITE LOCATION: Project Site

818 Sullivan Avenue, South Windsor, CT

SOIL MAP UNITS

Wetland Soils

Scitico silt Ioam (9): This soil was formerly mapped in Connecticut as Scantic. The Scitico series consists of deep, poorly drained soils formed in silty and clayey glacial lacustrine sediments. They are in nearly level to gently sloping lowlands on glacial lacustrine or marine sediment terraces. Typically, these soils have a very dark grayish brown silt loam surface layer 6 inches thick. The subsoil from 6 to 24 inches is dark gray, mottled silty clay loam. The substratum from 24 to 60 inches is dark grayish brown, mottled, silty clay. Varved layers of silts and clays in the substratum often extend to very deep depths.

Shaker fine sandy loam (9). The Shaker series consists of deep, poorly drained soils formed in a coarse-loamy mantle over clayey lacustrine sediments. They are nearly level to moderately steeply sloping soils on glacial lacustrine terraces. Typically, these soils have a very dark grayish brown fine sandy loam surface layer 6 inches thick. The subsoil from 6 to 25 inches is light brownish gray, mottled sandy loam. The substratum from 25 to 60 inches is dark yellowish brown, mottled, silty clay. This soil was formerly mapped in Connecticut as **Swanton**.

Maybrid silt loam (9). The Maybid series consists of deep, very poorly drained soils formed in silty and clayey glacial lacustrine sediments. They are in level to depressional areas on old glacial lakebeds or marine sediment terraces. Typically, these soils have a very dark gray silt loam surface layer 6 inches thick. The subsoil from 6 to 20 inches is gray, mottled silty clay loam. The substratum from 20 to 60 inches is gray, mottled, silty clay. Varved layers of silts and clays in the substratum often extend to very deep depths. This soil was formerly mapped in Connecticut as **Biddeford**.

Upland Soils

Elmridge (28) very fine sandy loam. The Elmridge series consists of deep, moderately well drained soils formed in a coarse-loamy mantle over clayey lacustrine sediments derived mainly from Triassic rocks. They are nearly level to moderately steeply sloping soils on glacial lacustrine terraces. Typically, these soils have a very dark grayish brown fine sandy loam surface layer 6 inches thick. The subsoil from 6 to 25 inches is dark yellowish brown, mottled fine sandy loam. The substratum from 25 to 60 inches is olive brown, mottled, silty clay. This soil was formerly mapped in Connecticut as Elmwood.

Udorthents-Urban Land complex (306). This soil mapping unit consists of well drained to moderately well drained soils that have been altered by cutting, filling, or grading. The areas either have had two feet or more of the upper part of the original soil removed or have more than two feet of fill material on top of the original soil. *Udorthents-Urban Land* or Made Land soils can be found on any soil parent material but are typically fluvial on glacial till plains and outwash plains and stream terraces.

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ON-SITE SOIL INVESTIGATION REPORT (CONTINUED)

PROJECT NAME & SITE LOCATION: Project Site

818 Sullivan Avenue, South Windsor, CT

SOIL MAP UNITS

See previous page

Any accompanying soil logs and soil maps, and the on-site soil investigation narrative are in accordance with the taxonomic classification of the National Cooperative Soil Survey of the USDA Natural Resource Conservation Service, and with the Connecticut Soil Legend (DEP Bulletin No.5, 1983). Jurisdictional wetland boundaries were delineated pursuant to the Connecticut General Statutes (CGS Sections 22a-36 to 22a-45), as amended. The site investigation was conducted and/or reviewed by the undersigned Registered Soil Scientist(s) [registered with the Society of Soil Scientists of Southern New England (SSSSNE) in accordance with the standards of the Federal Office of Personnel Management].

All wetland boundary lines established by the undersigned Soil Scientist are subject to change until officially adopted by, local, state, and federal regulatory agencies.

Respectfully submitted,

JMM WETLAND CONSULTING SERVICES, LLC

James M. McManus, MS, CPSS Certified Professional Soil Scientist

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Field Investigator/Reviewer

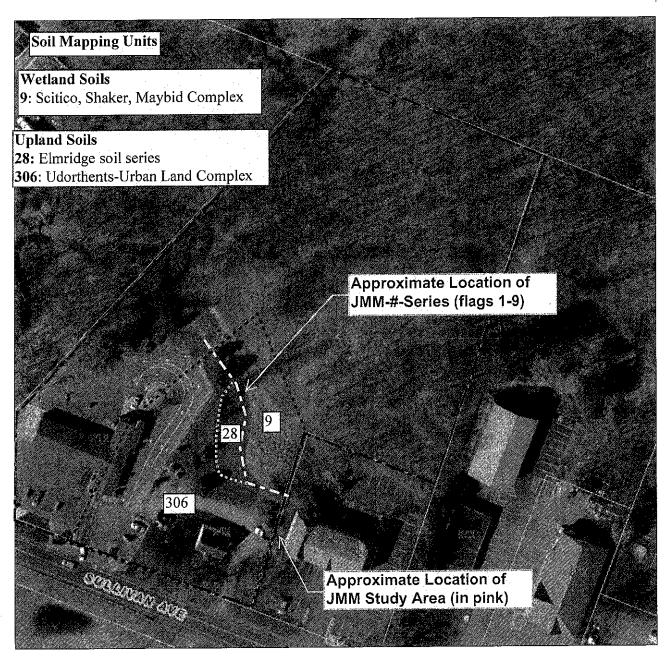
FIGURE 1: 818 Sullivan Avenue, South Windsor, CT

Town GIS Aerial Photo Showing the Approximate Location of Regulated Wetland, Soil Series, and Property Boundaries.

Town of South Windsor

Geographic Information System (GIS)





MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of South Windsor and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 100 feet





Web Soil Survey National Cooperative Soil Survey

Natural Resources Conservation Service

AGS.

MAP LEGEND

Spoil Area	Stony Spot		Very Stony Spot	Wet Spot		Omer	Special Line Features		tures	Streams and Canals	: :		Rails	Interstate Highways	US Routes	Major Roads	Local Roads	pu	Aerial Photography					
Ø] «	***	Ç.	ġ,y	sa 4	0	*		Water Features	and a second	- togodos	ransportation	sales sales sales	S. S. C.	(187 -7 -16)	% 68 3		Background						
erest (AOI)	Area of Interest (AOI)		Soil Man Hhit Polygons		Soit Map Unit Lines	Soil Map Unit Points	-	Special Point Features	Blowout		Borrow Pit	Clay Spot	مرام رامان	Closed Depression	Gravel Pit	Gravelly Spot	Landfill	Lava Flow	Marsh or swamp	Mine or Quarry	Miscellaneous Water	Perennial Water	Rock Outcrop	Saline Spot
Area of Interest (AOI)			Silos	<u>[</u>		Ĭ.		Special	\$00 mg)	B	×	K	\Diamond	×	**		n Hora.	-4	Gr.	0	0	*	

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.

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

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts 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 Survey Area Data: Version 20, Jun 9, 2020

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

Date(s) aerial images were photographed: Aug 24, 2019—Oct

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.

Severely Eroded Spot

1

Sandy Spot

Slide or Slip

de ٦

Sinkhole

Sodic Spot

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Scitico, Shaker, and Maybid soils	2.5	6.2%
28A	Elmridge fine sandy loam, 0 to 3 percent slopes	0.9	2.2%
28B	Elmridge fine sandy loam, 3 to 8 percent slopes	8.7	21.9%
36B	Windsor loamy sand, 3 to 8 percent slopes	2.1	5.4%
108	Saco silt loam	4.6	11.5%
306	Udorthents-Urban land complex	19.7	49.7%
701A	Ninigret fine sandy loam, 0 to 3 percent slopes	1.2	3.1%
Totals for Area of Interest		39.6	100.0%