

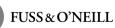
Project Name: Site Location:	Tamarack Avenue at Evergreen Walk South Windsor, Connecticut							
Prepared For: Contact:	Evergreen Walk, LLC Mr. John Finguerrra							
F&O Project No:	2000481.Y21							
Project Description	: construction of new road							
Date(s) of Investiga	ition: September 16, 2020							
Weather: 70°F, Sur	nny Rainfall (last 24 hours): 00.00 inches							
_	AND/WATERCOURSE DELINEATION VERIFICATION Connecticut Inland Wetlands & Watercourses (CGS 22a-36 to 22a-45)							
	J.S. Army Corps of Engineers							
	Fidal Wetlands							
	ence: A100-A108, B200-B206							
Field Plotted:	Site sketch Aerial photograph GPS (sub-meter) located							
	Site mapping: Title of Site Map							
	Sheet No.: Scale: Contours: n/a <u>ft.</u>							
METHOD OF UPLA	METHOD OF UPLAND SOIL DELINEATION Field Delineated Field confirmed NRCS soil mapping							
FIELD INVESTIGATION METHOD Spade & Auger Deep test pit (backhoe) Other:								
SOIL CONDITION								

The wetland and watercourses delineations of 2003 were verified in accordance with applicable local, state and federal statutes, regulations and guidance. Classification and mapping of soils on site were conducted in a manner consistent with the U.S. Department of Agriculture <u>Soil Survey Manual</u> (Soil Survey Staff, 1992). This delineation does not constitute an official wetland boundary until such time as it is accepted and approved by local, state or federal regulatory agencies.

As Prepared By:

Michael E. Soares Registered Soil Scientist

Page 1 of 4 F:\P2000\481\Y21\Wetlands\Wetland_Report_text.docx



METHODOLOGY

Inland wetlands and watercourses are regulated in the State of Connecticut by Connecticut General Statutes, Inland Wetlands and Watercourses Act, Chapter 440, sections 22a-36 to 22a-45. Wetlands are defined as "soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey." Watercourses are defined as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private." Intermittent watercourses are identified 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. "

Federal jurisdictional wetland boundaries are defined by 33 CFR 328-329. **Federal jurisdictional wetlands** are "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Federal wetlands were delineated in accordance with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0, January 2012). Activities occurring within Inland Waters and Wetlands within the State of Connecticut are subject to approval by the US Army Corps of Engineers, New England District.

RESULTS

SUMMARY OF SOILS

Wetland Soils

Aquents: Poorly to very poorly drained soils formed in human transported material or on excavated (cut) landscapes. No development to incipient B-horizon typical. Evidence of aquic moisture regime found where saturation results in redoximorphic features in upper 20 inches. No soils mapped as Aquents are mapped nor were observed at the site.

Aquepts: Poorly to very poorly drained soils with an aquic moisture regime and showing some soil development in the B-horizon. Publicly available mapping by the National Cooperative Soil Survey depicts the series Saco silt loam (Map Unit 108), located approximately in the area of the re-flagged wetland. This series consists of very deep, very poorly drained soils forming in silty alluvial sediments. These soils are typically nearly level and subject to frequent flooding.

Saprists: Very poorly drained soils comprised primarily of organic materials occurring through 16 inches or greater of the surface soil horizon. These soils occur in areas where the ground water table tends to fluctuate within the soils or in areas where the soils were aerobic during drier periods in the past. No soils mapped as Saprists are mapped nor were observed at the site.

Upland Soils

Udorthents: Well drained to excessively drained soils that have been disturbed by cutting or filling, and areas that are typically covered by buildings and pavement. No soils mapped as Udorthents are mapped at the site. However, development has areas to the south east, and north, of the site have been

developed and are likely constructed with human-transported fill material. It is possible that soils Soil within the re-flagged wetland and/or the intermittent stream have been disturbed, though the extent is unknown.

Two additional upland soils have been mapped at the site by the National Cooperative Soil Survey:

- Elmridge fine sandy loam (Map Unit 28) very deep, moderately well-drained soils, which have formed in loam over clayey sediments. They nearly level to moderately steeply sloping deposits on glacial lake terraces and lake plains.
- Enfield silt loam (Map Unit 704) very deep, well-drained soils, which have formed in silty mantle overlying glacial outwash nearly level to sloping deposits on glaciated outwash plains and terraces.

SUMMARY OF WATERCOURSE AND HYDROLOGY

The site is located within the drainage basin of Plum Gulley Brook in the Subregional Basin of the Podunk River. At the site, the inland wetlands flagged in this field inspection border the north and south banks of an unnamed intermittent stream. The intermittent stream begins east of Buckland Road and flows northwesterly through the site to Plum Gulley Brook. At the time of the inspection, wet and dry sections of the stream bed were observed, and a scoured stream and established back were present throughout its course. Increased dryness can be attributed to moderate drought conditions experienced in the summer and early fall of 2020 (see Attachment: *CT Interagency Drought Working Group 8/26/2020 Press Release*).

At the eastern end of the site, the wetland narrows to the watercourse's banks. Moving northwest (i.e., downstream), the bordering wetlands widen into a predominantly emergent wetland, with pockets of forested and scrub-shrub wetlands. Emergent wetland vegetation includes (common name/scientific name): arrow-leaved tearthumb/Persicaria sagittata, purple loosestrife/Lythrum salicaria, cat-tail/Typha latifoilia, devil's beggar-tick/Bidens frondosa, reed canary grass, and wrinkle-leaved goldenrod/Solidago rugosa. Forested and scrub-shrub wetland vegetation includes: red maple/Acer rubrum, gray dogwood/Swida racemosa, multiflora rose/Rosa multiflora, and speckled alder/Alnus incana.

An outfall and overgrown stormwater detention basin were observed immediately south of the flagged wetland. These elements of the local stormwater management system are not connected to the wetland or the intermittent stream discussed previously. No discharges or other stormwater-related infrastructure connected to the wetland or stream were observed, but it is presumed there are discharges from the surrounding commercial development and public roads.

SUMMARY OF WETLAND FUNCTION & VALUES ASSESSMENT

A Function & Values assessment was conducted in the field of the wetland inspected on the site. The assessment determined that the wetland provides the following Principal and Secondary Functions:

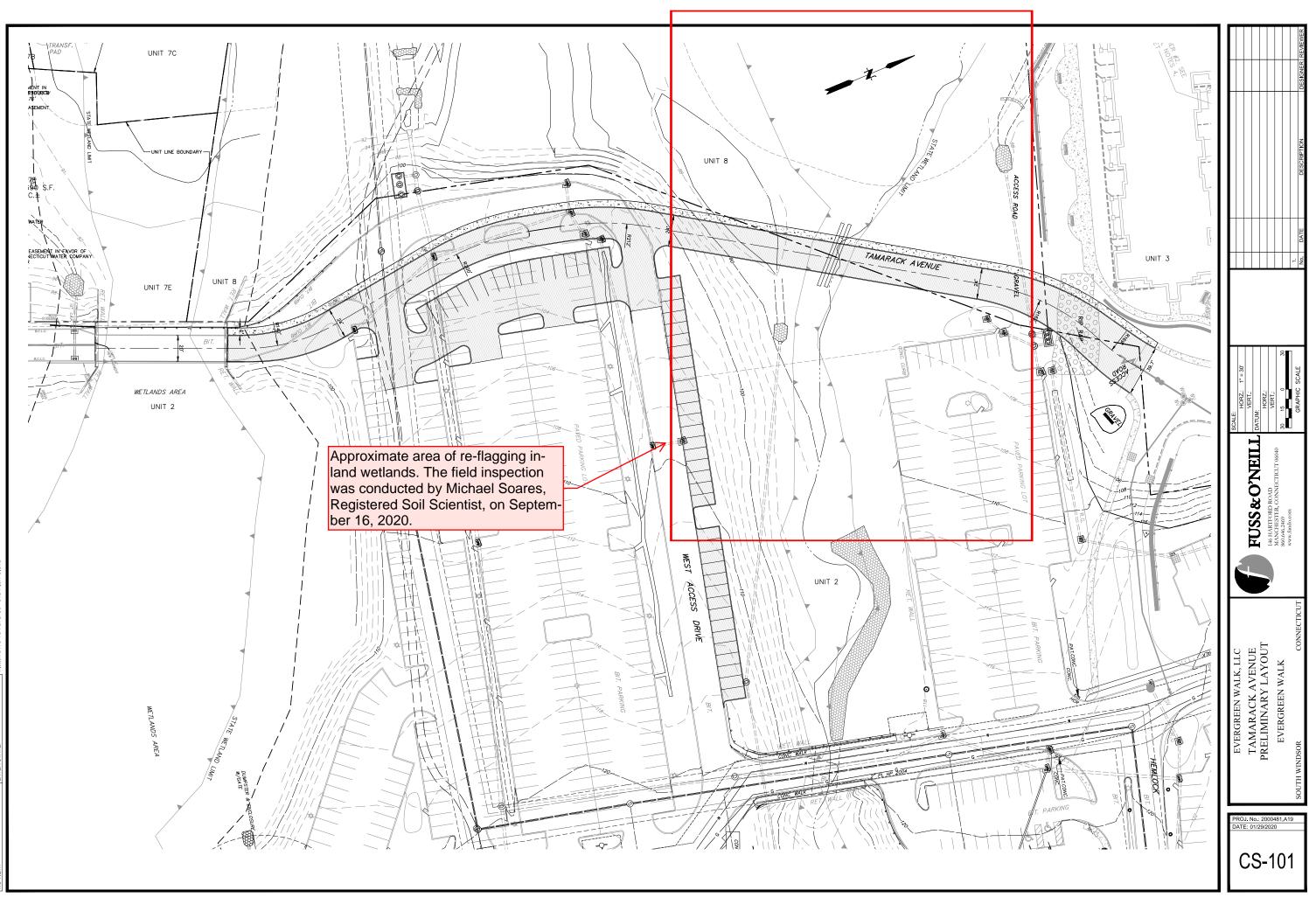
- **Groundwater Recharge** (*Secondary*) the capacity to interact with groundwater such that water from groundwater to surface water
- Sediment, Pollutant & Nutrient Removal (*Primary*) the capacity to remove dissolved, suspended and floatable material from storm water runoff and prevent degradation of water quality.
- **Production Export** (*Primary*) the capacity to produce and provide diverse food sources for wildlife

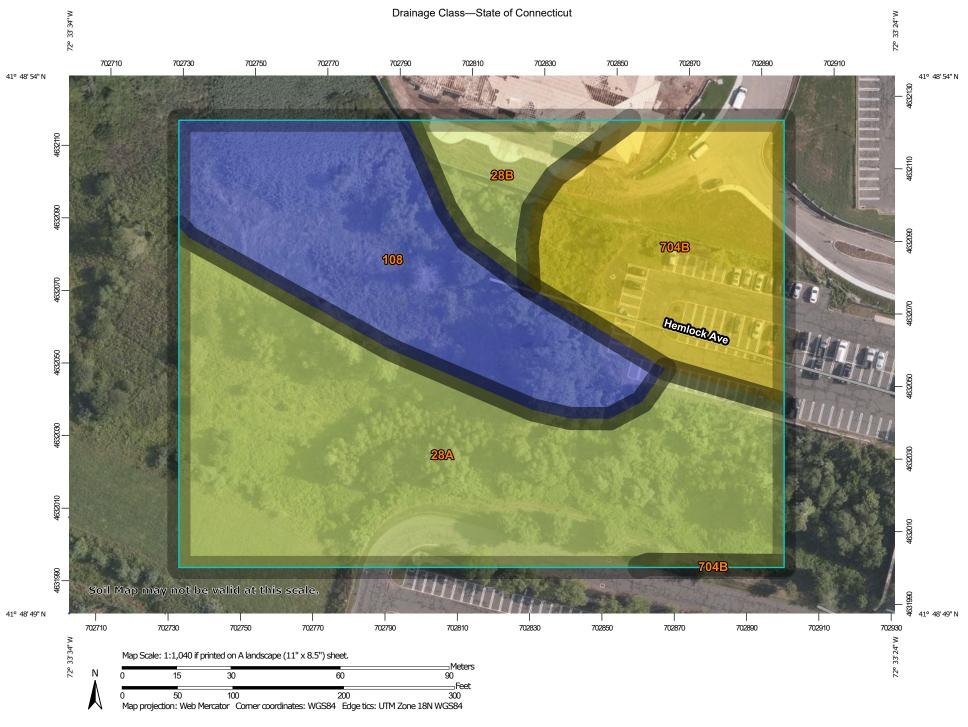


For a description of the assessment's methodology and a record of the assessment, see the Attachment: *Function & Value Assessment Form.*

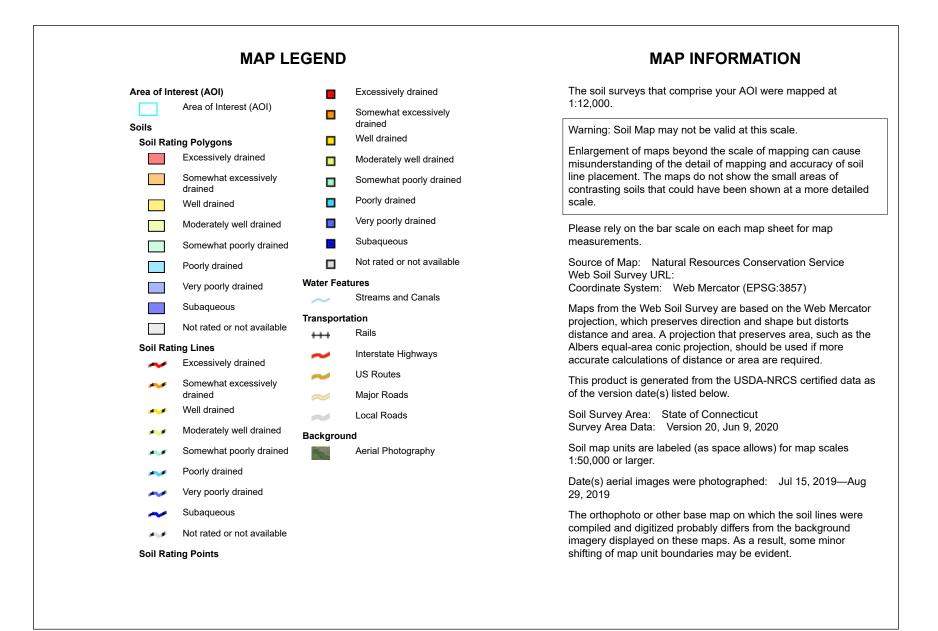
ATTACHMENTS

- "Tamarack Avenue Preliminary Layout," depicting site and 2003 weltand delineation by Richard Snarski
- NRCS Soil Drainge Class Mapping
- USACE Wetland Determination Data Forms
- Function & Value Assessment Form
- CT Interagency Drought Working Group 8/26/2020 Press Release
- Site Photographs





USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey





Drainage Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
28A	Elmridge fine sandy loam, 0 to 3 percent slopes	Moderately well drained	2.4	47.1%
28B	Elmridge fine sandy loam, 3 to 8 percent slopes	Moderately well drained	0.3	6.2%
108	Saco silt loam	Very poorly drained	1.3	26.0%
704B	Enfield silt loam, 3 to 8 percent slopes	Well drained	1.1	20.8%
Totals for Area of Intere	est		5.1	100.0%

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Tamarack Avenue at Evergreen Walk	City/County: South Windsor	Sampling	Date: 09/16/	/2020	
Applicant/Owner: Evergreen Walk, LLC		State:	CT Sa	mpling Point:	AW1
Investigator(s): Michael Soares	Section, Township, Range: <u>H</u>	lartford County			
Landform (hillside, terrace, etc.): drainageway	Local relief (concave, convex, no	one): level		Slope (%):	
Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 41.814354	Long: -72	.558128		Datum:	e Plane 1983
Soil Map Unit Name: Saco silt loam		NWI classi	ification: <u>R4</u>	SBC	
Are climatic / hydrologic conditions on the site typical for this time of	year? YesNo_>	(If no, explair	n in Remarks	s.)	
Are Vegetation, Soil, or Hydrologysignification	ntly disturbed? Are "Normal C	ircumstances" pi	resent?	Yes X N	No
Are Vegetation, Soil, or Hydrologynaturally	/ problematic? (If needed, exp	olain any answer	s in Remark	s.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure	es here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	X Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) X Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes X No Depth (inches): 8 Wetland H	lydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av	ailable:
Remarks:	t de la completa completa de la transforma de la completa de la completa de la completa de la completa de la co
Project site is located in a county classified by the state of Connecticut as "Stage 1 Incipient Droug water supplies, agriculture, or natural ecosystems." (https://portal.ct.gov/Water/Drought/Drought-Ho	
water supplies, agriculture, or natural ecosystems. (https://portal.ct.gov/water/Drought/Drought-ric	Jille)

VEGETATION – Use scientific names of plants.

Sampling Point: AW1

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1,		. <u> </u>		
2.		·		Number of Dominant SpeciesThat Are OBL, FACW, or FAC:3(A)
3.				
4.	_			Total Number of DominantSpecies Across All Strata:3(B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/E
7.				Prevalence Index worksheet:
	_	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)	•		OBL species 85 x 1 = 85
1. Swida racemosa	25	Yes	FAC	FACW species 27 x 2 = 54
2. Alnus incana	5	No	FACW	FAC species 35 x 3 = 105
3. Rosa multiflora	5	No	FACU	FACU species 5 x 4 = 20
4.				UPL species 0 x 5 = 0
5.	_			Column Totals: 152 (A) 264 (B
6.				Prevalence Index = B/A = 1.74
7.	_			Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
1. Persicaria sagittata	40	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^1$
2. Lythrum salicaria	30	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supportin
3. Typha latifolia	15	No	OBL	data in Remarks or on a separate sheet)
4. Phalaris arundinacea	10	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Solidago rugosa	10	No	FAC	¹ Indianters of hydrin coil and watland hydrology must
6. Solidago gigantea	7	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Solidago gigantea	5	No	FACW	Definitions of Vegetation Strata:
3.				Tree – Woody plants 3 in. (7.6 cm) or more in diamet
9.				at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.	_			and greater than or equal to 3.28 ft (1 m) tall.
12.	_			Herb – All herbaceous (non-woody) plants, regardles
	117	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)	-		Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.	_			
3.	_			Hydrophytic Vegetation
				Present? Yes X No
4.		=Total Cover		

Profile De	escription: (Describe	to the d	epth needed to docu	ment the	e indicate	or or con	firm the absence of	of indicator	rs.)
Depth	Matrix		Redox	Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-13	7.5YR 4/1	70	7.5YR 4/4	30	<u> </u>	M	Loamy/Clayey	Distino	ct redox concentrations
13-17	10YR 4/1	75	7.5YR 4/6	25	C	M	Loamy/Clayey	Promine	ent redox concentrations
17-24	7.5YR 2.5/1	97	7.5YR 4/6	7	C	M	Loamy/Clayey	Promine	ent redox concentrations
¹ Type: C=	=Concentration, D=Dep	letion, R	M=Reduced Matrix, CS	 S=Cover	ed or Coa	ated Sand	Grains. ² Loc	ation: PL=I	Pore Lining, M=Matrix.
	oil Indicators:								tic Hydric Soils ³ :
Histos	sol (A1)		Polyvalue Below	Surface	(S8) (LR	RR,	2 cm Mu	ck (A10) (LF	RR K, L, MLRA 149B)
	: Epipedon (A2)		MLRA 149B)						(A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surfac					-	Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4)		High Chroma Sa	-					face (S8) (LRR K, L)
	fied Layers (A5)	- (• • • • •	Loamy Mucky Mi			(, L)		`	69) (LRR K, L)
·	eted Below Dark Surface	e (A11)	Loamy Gleyed M		()			-	sses (F12) (LRR K, L, R)
	Dark Surface (A12) y Mucky Mineral (S1)		X Depleted Matrix Redox Dark Surf						Soils (F19) (MLRA 149B) (MLRA 144A, 145, 149B)
	y Gleyed Matrix (S4)		Depleted Dark Suit					ent Material	
	y Redox (S5)		Redox Depressio	•	')				urface (TF12)
	ped Matrix (S6)		Marl (F10) (LRR	. ,			Other (Explain in Remarks)		
	Surface (S7)			. ,			、	•	,
31	f han all and a star and a	4							
	s of hydrophytic vegeta /e Layer (if observed):		wetland hydrology mus	st be pre	sent, unie	ess distur	bed or problematic.		
Type:	e Layer (il observeu).								
	inches):						Hydric Soil Pre	esent?	Yes <u>X</u> No
Remarks:							•		
	form is revised from No 0 March 2013 Errata. (licators of Hydric Soils
			-						

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Tamarack Avenue at Evergreen Walk	City/County: South Windsor	Sampling Date	e: <u>09/16/</u>	2020	
Applicant/Owner: Evergreen Walk, LLC		State:	CT Samplin	ig Point:	UPL1
Investigator(s): Michael Soares	Section, Township, Range:	Hartford County			
Landform (hillside, terrace, etc.): upland	Local relief (concave, convex,	none): level	s	lope (%):	0
Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 41.814220	Long: _7	2.558890	Dat	um:	e Plane 1983
Soil Map Unit Name: Elmridge fine sandy loam		NWI classi	ification: none		
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No	X (If no, explain	ו in Remarks.)		
Are Vegetation, Soil, or Hydrologysignification	ntly disturbed? Are "Normal	Circumstances" pr	resent? Yes	<u> </u>	No
Are Vegetation, Soil, or Hydrologynaturally	/ problematic? (If needed, e	xplain any answer	s in Remarks.)		
					- 4 -

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID:	Yes	No <u>X</u>
Remarks: (Explain alternative procedu	ires here or in a	separate report.)			

HYDROLOGY

Wetland Hydrology Indicate	ors:					Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is rec	quired; o		Surface Soil Cracks (B6)		
Surface Water (A1) Water-Stained Leaves (B9)						Drainage Patterns (B10)
High Water Table (A2)				Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)					Dry-Season Water Table (C2)	
Water Marks (B1)				Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)					ng Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)				Presence of Reduced Iron (C4	·)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)				Recent Iron Reduction in Tilled	d Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)					Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)						Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)						FAC-Neutral Test (D5)
Field Observations:						
Surface Water Present?	Yes	No	Х	Depth (inches):		
Water Table Present?	Yes	No No	Х	Depth (inches):		
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland Hy	vdrology Present? Yes No X
(includes capillary fringe)						
Describe Recorded Data (stre	eam gauge, r	monitor	ing w	vell, aerial photos, previous insp	ections), if ava	ilable:
				ate of Connecticut as "Stage 1 Ir https://portal.ct.gov/Water/Droug		nt: Emerging drought event, potentially impacing me)

VEGETATION – Use scientific names of plants.

Sampling Point: UPL1

	Absolute	Dominant	Indicator	Deminence Test werkeheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus tremuloides	5	Yes	FACU	Number of Dominant Species
2. Malus pumila	5	Yes	UPL	That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species x 1 =0
1. Rosa multiflora	15	Yes	FACU	FACW species 20 x 2 = 40
2.				FAC species 75 x 3 = 225
3.				FACU species 25 x 4 = 100
1				UPL species 5 x 5 = 25
				Column Totals: 125 (A) 390 (B)
		·		$\frac{1}{2} \frac{1}{2} \frac{1}$
		·		Hydrophytic Vegetation Indicators:
1	15	-Total Cavar		
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				2 - Dominance Test is >50%
1. Solidago rugosa	75	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Solidago gigantea	20	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9				at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				We should be a first strategy of the second s
1. Vitis labrusca	5	Yes	FACU	Woody vines – All woody vines greater than 3.28 ft in height.
2.				
		·		Hydrophytic
		·		Vegetation Present? Yes No X
4				Present? Yes No _X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

SOIL	
------	--

Sampling Point: UPL1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2	10YR 4/3	100					Loamy/Clayey	fsl	
2-14	7.5YR 5/3	100					Loamy/Clayey	fsl	
14-28	10YR 6/4	100					Loamy/Clayey	fsl	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.									
-	oil Indicators:						Indicators for Proble	•	
Histosol (A1)			Polyvalue Below Surface (S8) (LRR R,				2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)	MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)			
	Histic (A3)	Thin Dark Surface (S9) (LRR R, MLRA 1498							
Hydrogen Sulfide (A4)			High Chroma Sands (S11) (LRR K, L)				Polyvalue Below Surface (S8) (LRR K, L)		
Stratified Layers (A5)			Loamy Mucky Mineral (F1) (LRR K, L)				Thin Dark Surface (S9) (LRR K, L)		
Depleted Below Dark Surface (A11)			Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dark Surface (A12)			Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)			Redox Dark Surface (F6)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)			Depleted Dark Surface (F7)				Red Parent Material (F21)		
Stripped Matrix (S6)			Redox Depressions (F8)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
Dark Surface (S7)			Marl (F10) (LRR K, L)					Keniaks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
Restrictive Layer (if observed):									
Type:	, ,								
	inches):						Hydric Soil Present?	Yes No_X	
Remarks:									
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils									
version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)									

STATE OF CONNECTICUT



OFFICE OF POLICY AND MANAGEMENT

CONNECTICUT INTERAGENCY DROUGHT WORKGROUP: FOUR COUNTIES ARE EXPERIENCING STAGE 2 DROUGHT CONDITIONS

(Hartford) -- With precipitation across Connecticut three to seven inches below normal over the last 90 days, the state's Interagency Drought Workgroup has announced that the four northern counties (Litchfield, Hartford, Tolland, and Windham) are experiencing Stage 2 Drought conditions. Under the state's new drought plan adopted in 2018, Stage 2 has replaced the previously used "Drought Advisory" stage and identifies an emerging drought event, potentially impacting water supplies, agriculture, or natural ecosystems.

"We have experienced drier than normal conditions in the spring and summer," said Office of Policy & Management Undersecretary Martin Heft, who chairs the Interagency Drought Workgroup. "The combination of precipitation shortfalls and an extended period of excessive heat has impacted the state's water resources and increased demands upon them. Many water suppliers struggle to keep pace with increased consumer demand for outdoor water uses and impacts are also being experienced in the state's streams and agricultural and forest lands. We must begin early steps now to mitigate the potential for harm should the drought become prolonged."

Residents and businesses in Stage 2 counties are being asked to voluntarily take the following measures to aid in minimizing future drought impact:

- Reduce automatic outdoor irrigation
- Postpone the planting of any new lawns or vegetation
- Minimize overall water use by fixing leaky plumbing and fixtures
- Follow any additional conservation requests issued by water suppliers or municipalities

"Residents should not be alarmed, but should be mindful of their water consumption and take sensible steps to stretch water supplies and reduce impacts on other water uses and on the environment," Department of Public Health Acting Commissioner Dr. Deidre Gifford said.

Tips on water saving measures can be found on the Department of Public Health's website here.

Stage 2 is the second of five stages of drought defined in the Connecticut Drought Response and Preparedness Plan. The Interagency Drought Workgroup classified the entire state as being at Stage 1 on June 19, when there were early signals of abnormally dry conditions. That stage is intended as a "heads up" regarding the possibility of a developing drought.

The decision to move to Stage 2 is based on an assessment of indicator data monitored by state and federal agencies, including precipitation, surface waters, groundwater, reservoirs, soil moisture, vegetation, and fire danger conditions. The state has experienced this level of drought four times in the past two decades, in 2002, 2007, 2010, and 2016. If conditions deteriorate further, the state could reach Stage 3, having reached that threshold only once before, in 2016.

The Interagency Drought Workgroup has moved the four northern counties to Stage 2 because precipitation shortfalls, reduced ground water levels, stream flows, and soil moisture impacts are especially pronounced there. Rainfall and droughts do not follow political boundaries, and impacts can be more severe at certain locations. Those who depend on private wells, fire or irrigation ponds, and other highly localized water resources should be especially mindful of local conditions, especially in places where previous droughts have affected supplies.

The State Interagency Drought Workgroup consists of representatives from the Department of Agriculture, Department of Emergency Services and Public Protection, Department of Energy and Environmental Protection, Department of Public Health, Office of Policy and Management, and Public Utilities Regulatory Authority, with assistance from the National Weather Service and United States Geological Survey. More information on the Interagency Drought Workgroup and the State Drought Plan are available <u>here</u>.

###

For Immediate Release: August 26, 2020 Contact: Christopher McClure Office of Policy and Management (860) 418-6296 (Office) (925) 457-7309 (Mobile) Chris.McClure@ct.gov

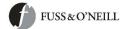




Figure 1. Emergent wetland bordering the south bank of the intermittent stream. Looking east.



Figure 2. Emergent wetland bordering the south bank of the intermittent stream. Looking north; trees in the background are in uplands north of the wetland.





Figure 3. Emergent wetland bordering the south bank of the intermittent stream. Looking west.



Figure 4. Stream bed of intermittent stream. Looking northwest (downstream).





Figure 5. Stream bed of intermittent stream. Looking southeast (upstream).