

March 27, 2009

Mr. Richard Chandler  
CCA  
40 Old New Milford Road  
Brookfield, CT 06804

RE: Mill River, Fairfield, CT

Dear Mr. Chandler:

Wetlands bordering both sides of the Mill River, from Southport Harbor north to Sturges Bridge, have been mapped in accordance with the Army Corps of Engineers multi-parameter test, as described in the January, 1987 "Wetland Delineation Manual". According to this method, three parameters must be satisfied for an area to be mapped as a wetland. These are wetland soils, vegetation, and hydrology.

According to the Army Corps method, soils must exhibit one or more of the following characteristics:

1. A surface layer of 32" or more that is more than 50% by volume organic matter.
2. A histic epipedon; i.e., soils inundated or saturated for a sufficient period of time to greatly retard aerobic decomposition of the organic surface.
3. The presence of hydrogen sulfide.
4. Aquic (free of dissolved oxygen) or peraquic (groundwater constantly at or near the ground surface) soil moisture regime.
5. Reducing soil conditions.
6. Gleyed soils
7. Mottled soils with low chroma matrix.
8. Iron and manganese concretions.

Wetland vegetation is present if the dominant vegetative species are adapted for life in saturated soil conditions. Such plants are classified as obligate, facultative wet or facultative plants by the US Fish and Wildlife Service.

Wetland hydrology is present if there is physical evidence of extended soil saturation resulting in hydric soils and/or drainage patterns, drift lines, sediment deposition

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and/or water marks. Stream gauge data and historic records may also be consulted. Any one of these criteria satisfies the requirement of wetland hydrology.

Field data were collected and delineations made by walking across the area in question on March 18, 23, 24, 26 & 27, 2009. Soils were examined by with a spade and auger to determine the break between hydric and non-hydric soils. Plants were identified and quantified to determine the percentage of hydrophytic vegetation. Finally, the areas were examined for evidence of wetland hydrology. Areas that meet these mandatory technical criteria was identified, and marked in the field with sequentially numbered pink plastic flagging tape.

Hydric soils bordering the Mill River are limited in extent and consist of Rippowam as well as Aquents soils. The majority of the wetland boundary delineated consists of an abrupt transition from an armored upland fill slope to the Mill River.

The Rippowam series consists of very deep, poorly drained loamy soils formed in alluvial sediments. They are nearly level soils on flood plains subject to frequent flooding. Slope ranges from 0 to 3 percent. Permeability is moderate or moderately rapid in the loamy layers and rapid or very rapid in the underlying sandy materials.

The Aquents map unit is a miscellaneous land type used to denote man-made or man-disturbed areas that are wet. These soils have an aquic soil moisture regime and can be expected to support hydrophytic vegetation. Typically, these soils occur in places where less than 2 feet of earthen material have been placed over poorly or very poorly drained soils; areas where the natural soils have been mixed so that the natural soil layers are not identifiable; or where the soil materials have been excavated to the water table.

I have attached data sheets that substantiate the delineation. This report and the data sheets should accompany any submittal to the Corps of Engineers.

Respectfully submitted,



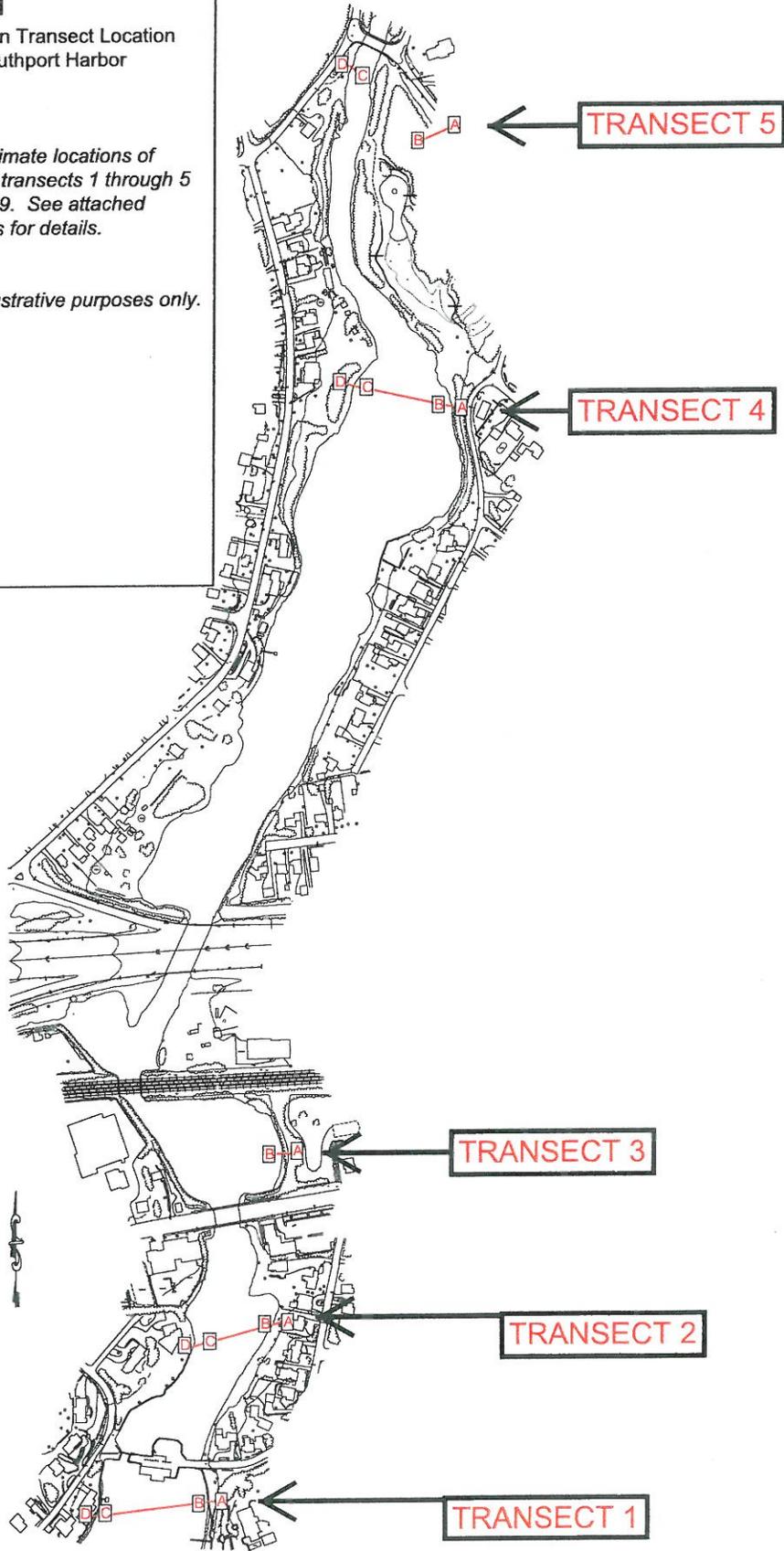
Eric Davison  
Registered Soil Scientist

# Mill River, Fairfield

Federal Wetland Delineation Transect Location  
Sturges Bridge south to Southport Harbor

Sketch showing the approximate locations of federal wetland delineation transects 1 through 5 recorded March 18-27, 2009. See attached birdseye aerial photographs for details.

This map is intended for illustrative purposes only.  
Not to scale.



**Federal Wetland Delineation Transect Locations  
Mill River, Fairfield**

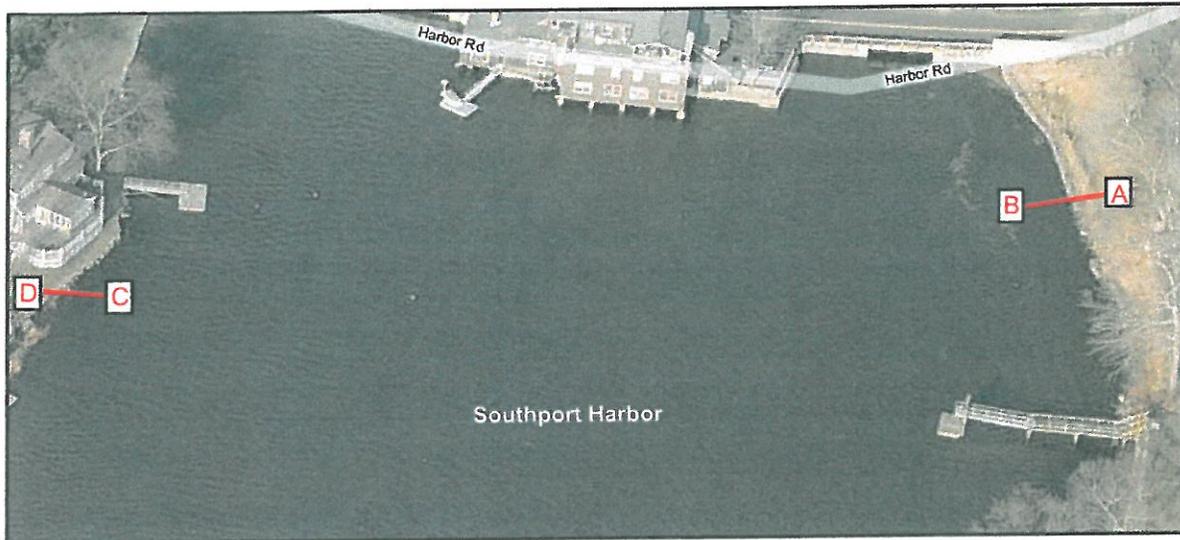


Photo 1: Transect 1 located south of Harbor Road, Southport Harbor.

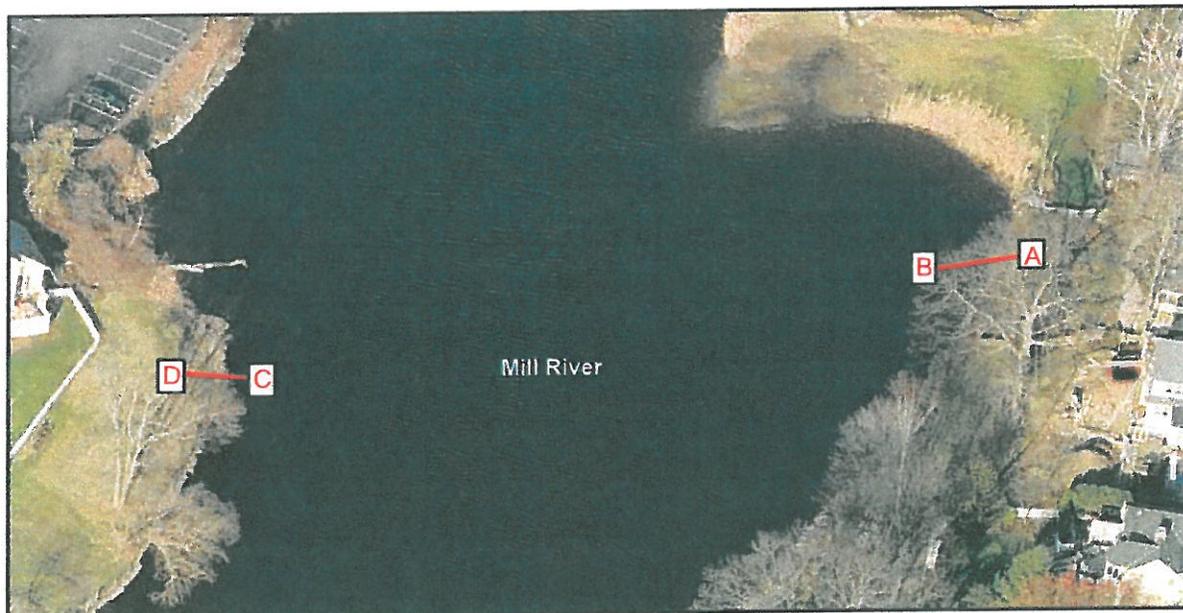


Photo 2: Transect 2 located north of Harbor Road and south of Post Road.

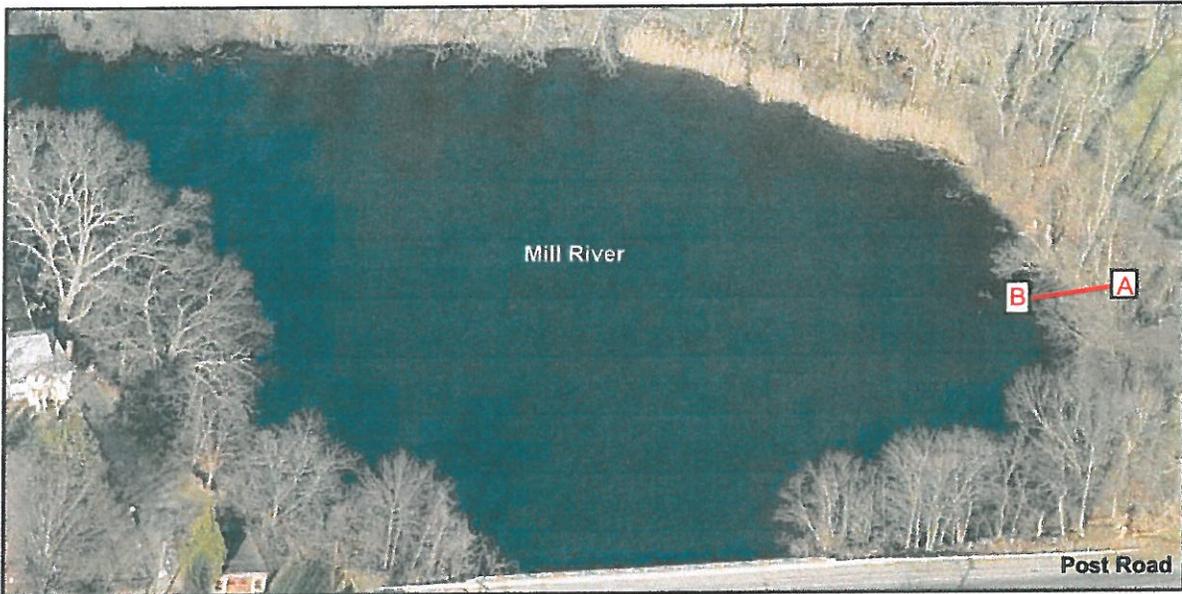


Photo 3: Transect 3 located on the east side of the Mill River north of Post Road.



Photo 4: Transect 4 located south of Sturges Bridge and north of I-95.

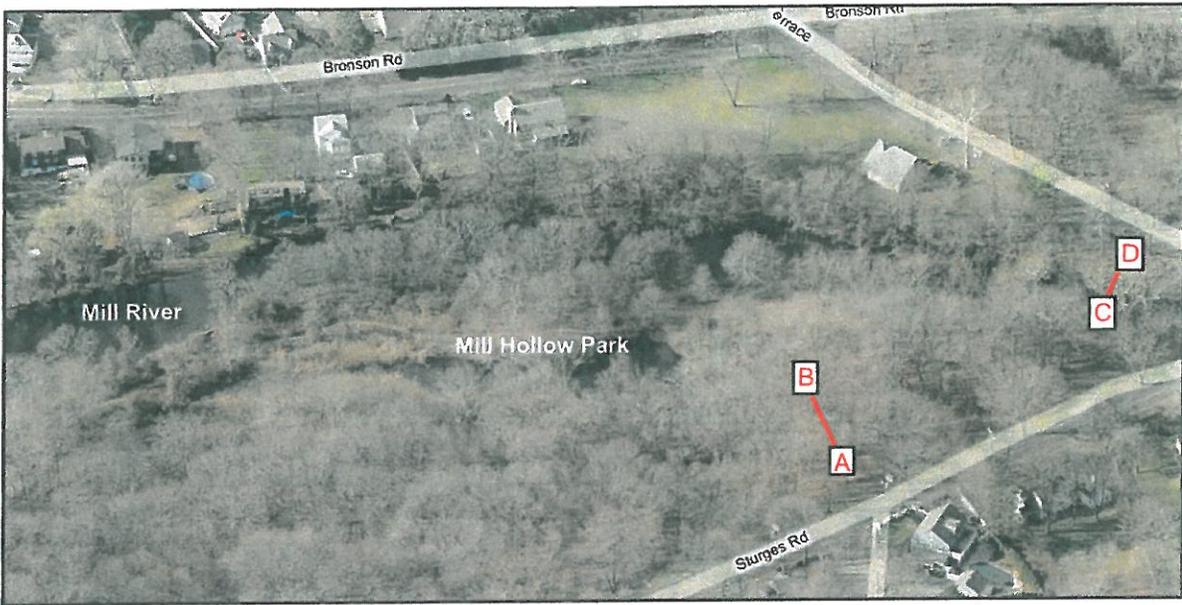


Photo 5: Transect 5 located south of Sturges Bridge within Mill Hollow Park.

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T1

PLOT: A

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

HERB

Phragmites Australis

Dominance Ratio

estimate

Percent Dominance

10

D  
O  
M

x

NWI Status

FACW

(Note: Phragmites growth is stunted and the plants are growing under stress. A retaining wall separates the river from the uplands. Wood chip pile (1-2' thick) covers the upland transect point)

**HYDROPHYTES**

1

OBL

FACW

FAC

\*OTHER

Hydrophytes Subtotal (A): 1

**NON-HYDROPHYTES**

FAC-

FACU

UPL

Non-hydrophytes Subtotal (B): 0

PERCENT HYDROPHYTES (100A/A+B): 100

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage

Aerial photography

Other

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: not observed within 10" (refusal at 10")

Depth to Saturation (including capillary fringe): not observed within 10" (refusal at 10")

Altered Hydrology (explain): Compact fill behind retaining wall

Inundated

Saturated in upper 12"

Water Marks

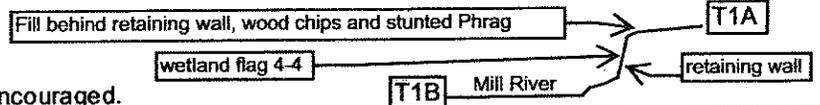
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-10"	--	10yr 3/2	none	fsl, cobbly-stony variable compact fill, refusal at 10"

HYDRIC SOIL INDICATOR(S): REFERENCE(S):

OPTIONAL SOIL DATA REFERENCE(S):  
 Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT      TRANSECT: 1      PLOT: A

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T1

PLOT: B

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

Note: Data point is located within the tidal portions of the Mill River. The tide level fluctuates against a retaining wall. The data point is not vegetated.

**HYDROPHYTES**

**NON-HYDROPHYTES**

OBL    FACW    FAC    \*OTHER

FAC-    FACU    UPL

Hydrophytes Subtotal (A): \_\_\_\_

Non-hydrophytes Subtotal (B): \_\_\_\_

PERCENT HYDROPHYTES (100A/A+B): \_\_\_\_\_

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage  
Aerial photography  
Other

Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: data point is ponded (Mill River)  
Depth to Saturation (including capillary fringe): \_\_\_\_\_  
Altered Hydrology (explain): \_\_\_\_\_

Inundated

Saturated in upper 12"

Water Marks

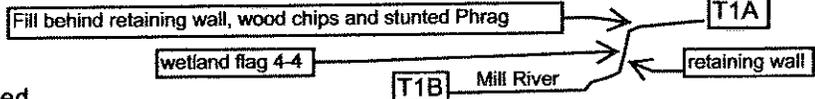
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
Open Water (Mill River)				

HYDRIC SOIL INDICATOR(S):

II - Tidal Soils

REFERENCE(S):

Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*Data point is located within waters of the U.S.
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 1

PLOT: B

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T1

PLOT: C

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

HERB

Spartina alterniflora

estimate

20

x

OBL

(Note: this data point is located within the Mill River. A retaining wall separates the upland and wetland data points. A small patch of Spartina is rooted at the base of the retaining wall.)

**HYDROPHYTES**

**NON-HYDROPHYTES**

1

OBL

FACW

FAC

\*OTHER

FAC-

FACU

UPL

Hydrophytes Subtotal (A): 1

Non-hydrophytes Subtotal (B): 0

PERCENT HYDROPHYTES (100A/A+B): 100

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage

Identification: \_\_\_\_\_

Aerial photography

Identification: \_\_\_\_\_

Other

Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: ponded (Mill River)

Depth to Saturation (including capillary fringe): \_\_\_\_\_

Altered Hydrology (explain): \_\_\_\_\_

Inundated

Saturated in upper 12"

Water Marks

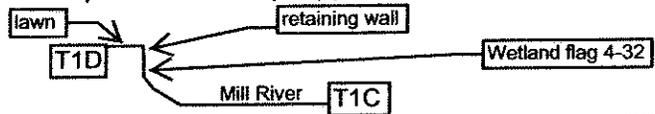
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
Open Water (Mill River)				

HYDRIC SOIL INDICATOR(S):

II - Tidal Soils

REFERENCE(S):

Field Indicators in New England version 3, 2004

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T1

PLOT: D

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	DOM	NWI Status
HERB					
Lawn		estimate	100	x	UPL (assumed)

**HYDROPHYTES**

OBL    FACW    FAC    \*OTHER

Hydrophytes Subtotal (A): 0

**NON-HYDROPHYTES**

FAC-    FACU    UPL

Non-hydrophytes Subtotal (B): 1

PERCENT HYDROPHYTES (100A/A+B): 0

**HYDROLOGY**

**RECORDED DATA**

Stream, lake, or tidal gage    Identification: \_\_\_\_\_

Aerial photography    Identification: \_\_\_\_\_

Other    Identification: \_\_\_\_\_

**NO RECORDED DATA**

**OBSERVATIONS:**

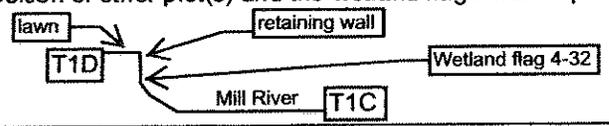
Depth to Free Water: Not observed

Depth to Saturation (including capillary fringe): not observed

Altered Hydrology (explain): Fill behind stone embankment

- Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits     Drainage Patterns within Wetland
- OTHER (explain): \_\_\_\_\_

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-20+	--	10yr 3/2 & 4/4	none	fsl, variable, compact stony fill

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 1

PLOT: D

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T2

PLOT: A

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	D O M	NWI Status
HERB					
	Panicum virgatum	estimate	20	x	FAC
	Celastrus orbiculatus	estimate	60	x	FACU
	Ornamental Ivy	estimate	50	x	UPL (assumed)
(Note: transect consists of an armored boulder embankment bordering the Mill River)					

HYDROPHYTES				NON-HYDROPHYTES		
OBL	FACW	FAC	*OTHER	FAC-	FACU	UPL
		1			1	1
Hydrophytes Subtotal (A): 1				Non-hydrophytes Subtotal (B): 2		
PERCENT HYDROPHYTES (100A/A+B): 33						

**HYDROLOGY**

RECORDED DATA  
 Stream, lake, or tidal gage Identification: \_\_\_\_\_  
 Aerial photography Identification: \_\_\_\_\_  
 Other Identification: \_\_\_\_\_

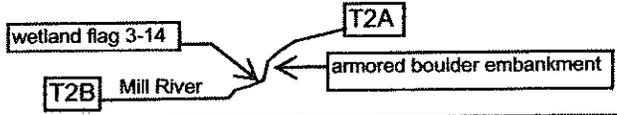
NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: \_\_\_\_\_  
 Depth to Saturation (including capillary fringe): \_\_\_\_\_  
 Altered Hydrology (explain): Fill/armored boulder embankment

Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits     Drainage Patterns within Wetland

OTHER (explain): \_\_\_\_\_

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
Armored boulder slope - no soils data collected				

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 2

PLOT: A

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T2

PLOT: B

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

HERB

Baccharis halimifolia  
Spartina patens

estimate  
estimate

30  
10

x

FACW  
FACW+

(Note: transect consists of an armored boulder embankment bordering the Mill River)

**HYDROPHYTES**

2

OBL    FACW    FAC    \*OTHER

Hydrophytes Subtotal (A): 2

**NON-HYDROPHYTES**

FAC-    FACU    UPL

Non-hydrophytes Subtotal (B): 0

PERCENT HYDROPHYTES (100A/A+B): 100

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage  
Aerial photography  
Other

Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: ponded (Mill River)  
Depth to Saturation (including capillary fringe): ----  
Altered Hydrology (explain): Fill/armored boulder embankment

Inundated

Saturated in upper 12"

Water Marks

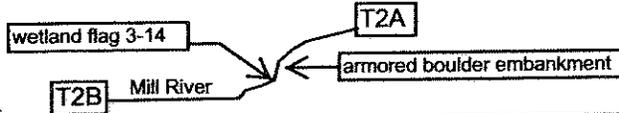
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
ponded (Mill River)				

HYDRIC SOIL INDICATOR(S):  
II - Tidal Soils

REFERENCE(S):  
Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T2

PLOT: C

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	DOM	NWI Status
Open Water (Mill River)					
(Note: transect consists of lawn and retaining wall bordering the Mill River)					

HYDROPHYTES

NON-HYDROPHYTES

OBL    FACW    FAC    \*OTHER

FAC-    FACU    UPL

Hydrophytes Subtotal (A): \_\_\_\_

Non-hydrophytes Subtotal (B): \_\_\_\_

PERCENT HYDROPHYTES (100A/A+B): \_\_\_\_\_

HYDROLOGY

RECORDED DATA

Stream, lake, or tidal gage  
Aerial photography  
Other

Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: Open water (Mill River)  
Depth to Saturation (including capillary fringe): \_\_\_\_\_  
Altered Hydrology (explain): \_\_\_\_\_

Inundated

Saturated in upper 12"

Water Marks

Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
open water (Mill River)				

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

II - Tidal Soils

Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA

REFERENCE(S):

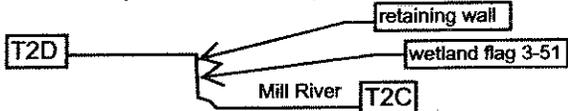
Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-10 (refusal at 10")	----	10yr 3/2 & 10yr 4/4	none	fsl, variable compact fill

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 2

PLOT: D

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T3

PLOT: A

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION

Stratum and Species

Dominance Ratio

Percent Dominance

DOM

NWI Status

HERB

leaf litter

SHRUB

Liriodendron tulipifera

Taxus canadensis

Polygonum cuspidatum

estimate

20

x

FACU

estimate

10

x

FACU-

estimate

30

x

FACU-

TREE

Ulmus americana

Liriodendron tulipifera

Acer saccharum

153.9/233.3

66

x

FACW-

38.5/233.3

16.5

40.9/233.3

17.5

HYDROPHYTES

1

OBL

FACW

FAC

\*OTHER

Hydrophytes Subtotal (A): 1

NON-HYDROPHYTES

2

FAC-

FACU

UPL

Non-hydrophytes Subtotal (B): 2

PERCENT HYDROPHYTES (100A/A+B): 33

HYDROLOGY

RECORDED DATA

Stream, lake, or tidal gage

Aerial photography

Other

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: not observed

Depth to Saturation (including capillary fringe): not observed

Altered Hydrology (explain): Old fill embankment

Inundated

Saturated in upper 12"

Water Marks

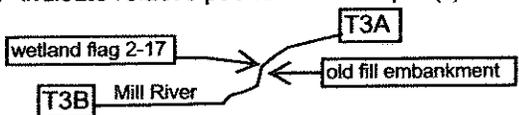
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-20	---	10yr 3/2	none	variable gravelly fill

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T3

PLOT: B

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

Note: this data point is located within the Mill River. There is a wrack line and narrow tidal zone, with no wetland vegetation.

**HYDROPHYTES**

**NON-HYDROPHYTES**

OBL    FACW    FAC    \*OTHER

FAC-    FACU    UPL

Hydrophytes Subtotal (A): 1

Non-hydrophytes Subtotal (B):     

PERCENT HYDROPHYTES (100A/A+B):     

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage  
Aerial photography  
Other

Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water:     ponged (Mill River)      
Depth to Saturation (including capillary fringe): \_\_\_\_\_  
Altered Hydrology (explain): \_\_\_\_\_

Inundated

Saturated in upper 12"

Water Marks

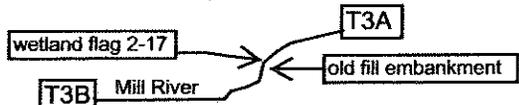
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
This data point is located within the Mill River				

HYDRIC SOIL INDICATOR(S): II - Tidal Soils  
 REFERENCE(S): Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA  
 REFERENCE(S):  
 Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT      TRANSECT: 3      PLOT: B

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T4

PLOT: A

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION

Stratum and Species

Dominance Ratio

Percent Dominance

DOM

NWI Status

HERB  
Lawn

estimate

100

x

UPL

Note: this transect consists of lawn and armored boulder fill embankment bordering the Mill River.

HYDROPHYTES

NON-HYDROPHYTES

OBL FACW FAC \*OTHER

FAC- FACU UPL

1

Hydrophytes Subtotal (A): 0

Non-hydrophytes Subtotal (B): 1

PERCENT HYDROPHYTES (100A/A+B): 0

HYDROLOGY

RECORDED DATA

Stream, lake, or tidal gage  
Aerial photography  
Other

Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_  
Identification: \_\_\_\_\_

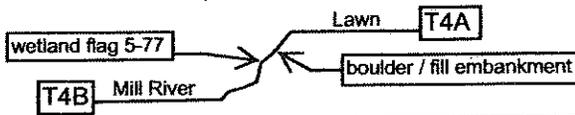
NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: not observed  
Depth to Saturation (including capillary fringe): not observed  
Altered Hydrology (explain): Boulder/fill embankment

- Inundated Saturated in upper 12" Water Marks Drift Lines Sediment Deposits Drainage Patterns within Wetland OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-3	A	10yr 3/2	none	fine sandy loam loamy sand  Note: profile is compact fill slope.
3-20	B	1oyr 4/4	none	

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: T4

PLOT: B

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

Note: data point is located within tidal portions of the Mill River. The data point is un-vegetated. This transect consists of lawn and armored boulder fill embankment bordering the Mill River.

**HYDROPHYTES**

**NON-HYDROPHYTES**

OBL    FACW    FAC    \*OTHER

FAC-    FACU    UPL

Hydrophytes Subtotal (A): 0

Non-hydrophytes Subtotal (B): 0

PERCENT HYDROPHYTES (100A/A+B): 0

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage

Aerial photography

Other

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: ponded (Mill River)

Depth to Saturation (including capillary fringe): \_\_\_\_\_

Altered Hydrology (explain): Boulder/fill embankment

Inundated

Saturated in upper 12"

Water Marks

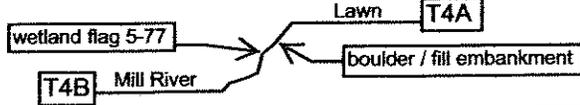
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
Data point within Mill River				

HYDRIC SOIL INDICATOR(S): **II - Tidal Soils** REFERENCE(S): **Field Indicators in New England, version 3, 2004**

OPTIONAL SOIL DATA REFERENCE(S):  
 Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: **Mill River, Fairfield, CT** TRANSECT: **4** PLOT: **B**

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 4

PLOT: C

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	D O M	NWI Status
HERB					
	Phragmites australis	estimate	30	x	FACW
	Typha latifolia	estimate	20	x	OBL
<p>Note: wetland vegetation is maintained/mowed occasionally by homeowner. No woody vegetation is present.</p>					

HYDROPHYTES

NON-HYDROPHYTES

1 OBL     1 FACW     FAC     \*OTHER  
 Hydrophytes Subtotal (A): 2

FAC-     FACU     UPL  
 Non-hydrophytes Subtotal (B): 0

PERCENT HYDROPHYTES (100A/A+B): 100

HYDROLOGY

RECORDED DATA  
     Stream, lake, or tidal gage    Identification: \_\_\_\_\_  
     Aerial photography            Identification: \_\_\_\_\_  
     Other                              Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: free water at 6"  
 Depth to Saturation (including capillary fringe): Saturated to surface  
 Altered Hydrology (explain): \_\_\_\_\_

- Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits     Drainage Patterns within Wetland  
 OTHER (explain): \_\_\_\_\_

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-17	Oa	10yr 2/2	conc. 10yr 4/6, fine, 2%, beginning @ 6"	Silty muck
17-20+	C	10yr 4/2	conc. 10yr 4/6, medium, 5%	Fine sandy loam

HYDRIC SOIL INDICATOR(S):

III - Histosol

REFERENCE(S):

Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:

Soil drainage class:

Depth to active water table:

NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT      TRANSECT: 4      PLOT: D  
 DELINEATOR(S): Eric Davison      DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	DOM	NWI Status
HERB					
Lawn		estimate	100	x	UPL
TREE					
Pinus strobus (planted tree row)		--	100	x	FACU

HYDROPHYTES				NON-HYDROPHYTES		
OBL	FACW	FAC	*OTHER	FAC-	FACU	UPL
					1	1
Hydrophytes Subtotal (A): <u>0</u>				Non-hydrophytes Subtotal (B): <u>2</u>		
PERCENT HYDROPHYTES (100A/A+B): <u>0</u>						

**HYDROLOGY**

RECORDED DATA  
 Stream, lake, or tidal gage Identification: \_\_\_\_\_  
 Aerial photography Identification: \_\_\_\_\_  
 Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: not observed  
 Depth to Saturation (including capillary fringe): not observed  
 Altered Hydrology (explain): \_\_\_\_\_

Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits     Drainage Patterns within Wetland

OTHER (explain): \_\_\_\_\_

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-20+	---	10yr 4/2	beginning @ 14", 10yr 4/6 conc, 2%	fill, fine sandy loam

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 5

PLOT: A

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	DOM	NWI Status
HERB	Prunus serotina (seedlings)	estimate	20	x	FACU
	Rosa multiflora	estimate	20	x	FACU
SHRUBS	Polygonum cuspidatum	estimate	20	x	FACU-
	Rosa multiflora	estimate	30	x	FACU
TREES	Prunus serotina	50.3/198.3	25	x	FACU
	Acer saccharum	113.1/198.3	57	x	FACU-
	Acer rubrum	35.4/198.8	17		

HYDROPHYTES

NON-HYDROPHYTES

OBL    FACW    FAC    \*OTHER

Hydrophytes Subtotal (A): 0

6

FAC-    FACU    UPL

Non-hydrophytes Subtotal (B): 6

PERCENT HYDROPHYTES (100A/A+B): 100

HYDROLOGY

RECORDED DATA

Stream, lake, or tidal gage    Identification: \_\_\_\_\_

Aerial photography    Identification: \_\_\_\_\_

Other    Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: not observed

Depth to Saturation (including capillary fringe): not observed

Altered Hydrology (explain): Roadside fill embankment

- Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits     Drainage Patterns within Wetland
- OTHER (explain): \_\_\_\_\_



PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 5

PLOT: B

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

**HERB**

Symplocarpus foetidus  
Osmunda cinnamomea

estimate  
estimate

30  
20

x  
x

OBL  
FACW

**TREES**

Acer rubrum

--

100

x

FAC

**HYDROPHYTES**

**NON-HYDROPHYTES**

1

1

1

OBL

FACW

FAC

\*OTHER

FAC-

FACU

UPL

Hydrophytes Subtotal (A): 3

Non-hydrophytes Subtotal (B): 0

PERCENT HYDROPHYTES (100A/A+B): 100

**HYDROLOGY**

**RECORDED DATA**

Stream, lake, or tidal gage

Aerial photography

Other

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

Identification: \_\_\_\_\_

**NO RECORDED DATA**

**OBSERVATIONS:**

Depth to Free Water: free water at 6"

Depth to Saturation (including capillary fringe): saturated to soil surface

Altered Hydrology (explain): \_\_\_\_\_

Inundated

Saturated in upper 12"

Water Marks

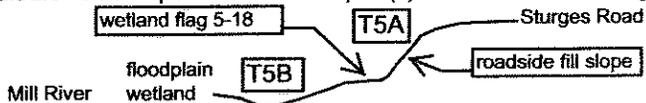
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-25	Oa	10yr 3/1	none	Silty muck

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

III - Histosol

Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 5

PLOT: B

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 5

PLOT: C

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

**VEGETATION**

Stratum and Species

Dominance Ratio

Percent Dominance

D  
O  
M

NWI Status

Note: this data point is located within the Mill River channel.

**HYDROPHYTES**

**NON-HYDROPHYTES**

OBL    FACW    FAC    \*OTHER

FAC-    FACU    UPL

Hydrophytes Subtotal (A): \_\_\_\_

Non-hydrophytes Subtotal (B): \_\_\_\_

PERCENT HYDROPHYTES (100A/A+B): \_\_\_\_\_

**HYDROLOGY**

RECORDED DATA

Stream, lake, or tidal gage

Identification: \_\_\_\_\_

Aerial photography

Identification: \_\_\_\_\_

Other

Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: Open water (Mill River)

Depth to Saturation (including capillary fringe): \_\_\_\_\_

Altered Hydrology (explain): \_\_\_\_\_

Inundated

Saturated in upper 12"

Water Marks

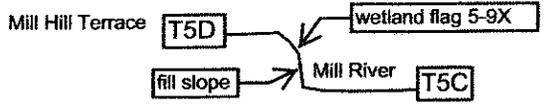
Drift Lines

Sediment Deposits

Drainage Patterns within Wetland

OTHER (explain):

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
This data point is located within the Mill River				

HYDRIC SOIL INDICATOR(S): I - ponded or flooded soils  
 REFERENCE(S): Field Indicators in New England, version 3, 2004

OPTIONAL SOIL DATA  
 REFERENCE(S):  
 Taxonomic subgroup:  
 Soil drainage class:  
 Depth to active water table:  
 NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hydric soils criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wetland hydrology criterion met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 5

PLOT: D

DELINEATOR(S): Eric Davison

DATE: March 18-27, 2009

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	DOM	NWI Status
HERB					
	Lawn	estimate	60	x	UPL
	Celastrus orbiculatus	estimate	20	x	FACU
SHRUB					
	Rosa multiflora	estimate	30	x	FACU
TREES					
	Acer saccharum	19.6/309.5	6		
	Acer rubrum	277/309.5	90	x	FAC
	Quercus rubra	12.6/309.5	4		
VINES					
	Toxicodendron radicans	1/1	100	x	FAC

HYDROPHYTES

NON-HYDROPHYTES

OBL    FACW    2    FAC    \*OTHER

FAC-    2    FACU    1    UPL

Hydrophytes Subtotal (A): 2

Non-hydrophytes Subtotal (B): 3

PERCENT HYDROPHYTES (100A/A+B): 40

HYDROLOGY

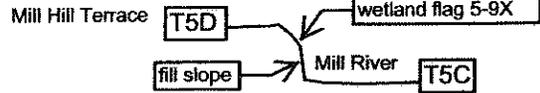
RECORDED DATA  
 Stream, lake, or tidal gage    Identification: \_\_\_\_\_  
 Aerial photography    Identification: \_\_\_\_\_  
 Other    Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: not observed  
 Depth to Saturation (including capillary fringe): not observed  
 Altered Hydrology (explain): \_\_\_\_\_

- Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits     Drainage Patterns within Wetland
- OTHER (explain): \_\_\_\_\_

**SOIL** Sketch landscape position of this plot. Indicate relative position of other plot(s) and the wetland flag if not on plan.



Submission of photo of plot is encouraged.

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES (color, abundance, size, contrast)	COMMENTS (USDA texture, nodules, concretions, masses, pore linings, restrictive layers, root distribution, soil water, etc.)
0-10	A	10yr 3/2	none	fine sandy loam variable stony fill, some bituminous
10-25+	B	10yr 4/4	none	

HYDRIC SOIL INDICATOR(S):

REFERENCE(S):

OPTIONAL SOIL DATA

REFERENCE(S):

Taxonomic subgroup:  
Soil drainage class:  
Depth to active water table:  
NTCHS hydric soil criterion:

**CONCLUSIONS**

	YES	NO	REMARKS:
Hydrophytic vegetation criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hydric soils criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wetland hydrology criterion met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IS THIS DATAPOINT IN A WETLAND?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PROJECT TITLE: Mill River, Fairfield, CT

TRANSECT: 5

PLOT: D

March 27, 2009

Mr. Richard Chandler  
CCA  
40 Old New Milford Road  
Brookfield, CT 06804

RE: Mill River, Fairfield

Dear Mr. Chandler:

EPS was retained to delineate the wetlands and watercourses on the above referenced site. Wetlands bordering both sides of the Mill River, from Southport Harbor north to Sturges Bridge were delineated. The wetland delineation was conducted by a soil scientist, according to the requirements of the CT Inland Wetlands and Watercourses Act (P.A. 155). Wetlands are defined as areas of poorly drained, very poorly drained, floodplain, and alluvial soils, as delineated by a soil scientist. Watercourses are defined as bogs, swamps, or marshes, as well as lakes, ponds, rivers, streams, etc., whether natural or man-made, permanent or intermittent. Any competent professional may delineate watercourses.

The wetlands were delineated by walking across the parcel in question on March 18, 23, 24, 26 & 27, 2009 and examining the upper 20" of the soil profile with a spade and auger. Those areas meeting the requirements noted above were marked with sequentially numbered pink plastic flagging tape.

The wetland boundary at the site consists predominately of the banks of the Mill River, with narrow bands of Aquents and Rippowam soils bordering the river in places. The Aquents map unit is a miscellaneous land type used to denote man-made or man-disturbed areas that are wet. These soils have an aquic soil moisture regime and can be expected to support hydrophytic vegetation. Typically, these soils occur in places where less than 2 feet of earthen material have been placed over poorly or very poorly drained soils; areas where the natural soils have been mixed so that the natural soil layers are not identifiable; or where the soil materials have been excavated to the water table.

The Rippowam series consists of very deep, poorly drained loamy soils formed in alluvial sediments. They are nearly level soils on flood plains subject to frequent flooding. Slope ranges from 0 to 3 percent. Permeability is moderate or moderately rapid in the loamy layers and rapid or very rapid in the underlying sandy materials.

The non-wetland soils were not examined in detail, except as was necessary to identify the wetland boundary. They consist of Udorthents. Udorthents is a miscellaneous land type used

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to denote moderately well to excessively drained earthen material which has been so disturbed by cutting, filling, or grading that the original soil profile can no longer be discerned.

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

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Eric Davison". The signature is fluid and cursive, with a large initial "E" and "D".

Eric Davison

Registered Soil Scientist