APPENDIX D

FUNCTIONAL VALUE SCORES

Appendix D

METHODS USED TO ANSWER QUESTIONS

Ecological Integrity

1.1 Water quality map used to estimate inflow quality, subject to field observations.
1.2 New London soils map used to estimate percent very poorly drained soils.
1.3 Town zoning map, current Fuss and O'Neill, Inc. (F&O) zoning map and aerial photos used for dominant land use zoning of wetlands.
1.4 Aerial photographs used to estimate the number of buildings within 500 ft of the wetland boundary (per 10 ac of wetland).
1.5 Field observations of fill, limited by viewing location.
1.6 Aerial photographs were measured to estimate percent natural vegetation edge.
1.7 Field observations of litter and disturbance in wetlands, limited by viewing locations.
1.8 Field observations of litter and disturbance within 500 ft, limited by viewing locations.
1.9 Field observations of mowing, farming, etc., limited by viewing locations.
1.10 Field observations of wetland drainage, limited by viewing locations.
1.11 Aerial photographs and town road map used to count crossings.
1.12 Aerial photographs, topo maps and road map used to locate for dams, dikes or impoundments.

Wildlife Habitat

2.1 Ecological Integrity score.
2.2 Used F&O calculations of wetland areas based on soils. Stream reach areas included adjoining wetlands.
2.3 Used a grid enumeration method to estimate pond areas from aerial photographs.
2.4 US Fish and Wildlife wetland class maps and aerials used for total number of wetland classes. Field observations limited by viewing locations.
2.5 Same for dominant wetland class.
2.6 F&O wetland map used to locate upland islands.
2.7 Travel lanes to other wetlands estimated from aerial photos.
2.8 Aerial photographs were measured to locate 500 ft natural buffer areas.

Finfish Habitat - Streams

3.1 Water quality map used, subject to field observations.
3.2 Dam on Jordan Brook acts as an anadromous fish barrier for entire watershed.
3.3 Used topo map to determine stream order.
3.4 Used land use map, F&O watersheds map and aerial photos to determine dominant land use in the watershed.
3.5 Field observations of stream width. Limited by viewing locations.

3.6 Field observations of available shade. Limited by viewing locations.
3.7 Field observations of channel type. Limited by viewing locations.
3.8 Field observations of cover. Limited by viewing locations.
3.9 Field observations of spawning areas. Limited by viewing locations.

Finfish Habitat - Ponds

3.1 Water quality map used, subject to field observations.
3.2 Dam on Jordan Brook acts as an anadromous fish barrier for entire watershed.
3.3 Grid enumeration method used to estimate pond areas.
3.4 Depth estimated from observations of aquatic vegetation (i.e., lily pads = 4 ft or less., otherwise 4 - 20 ft. Unlikely that any of these small ponds are over 20 ft in depth).
3.5 Estimated transparency from shoreline water clarity. Based on my pond experience.
3.6 Percent emergent vegetation estimated from surface observations.

Visual/Esthetic Quality

Questions 5.1 through 5.9 were answered by observations in the field at the viewing locations. Question 5.10 is the Wildlife Habitat FVI score.

Appendix D

WETLAND VALUE GRAPHS

Functional Value Indices

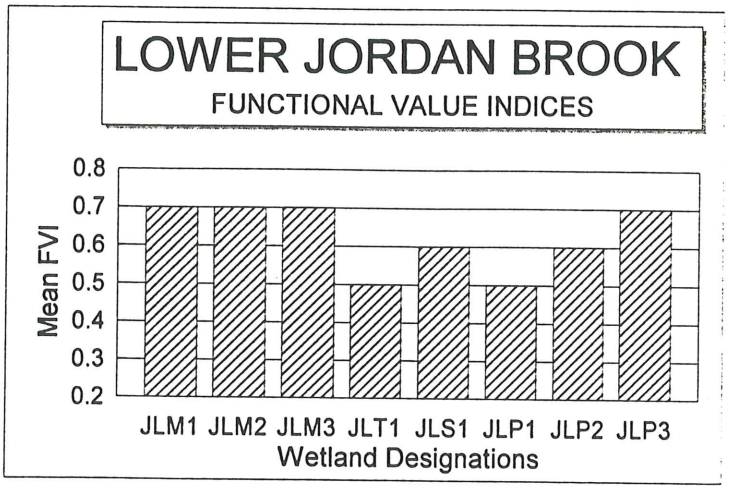
Bar graphs show mean Functional Values Indices (FVI) for all wetlands within the five major segments: Lower, Middle and Upper Jordan Brook, Nevins Brook and East Brook. Wetlands are arranged from left to right in the order of Mainstem Sections, Tributaries, Swamps and Ponds. Each bar represents the average of four functional value indices for *Ecological Integrity, Wildlife Habitat, Fish Habitat* and *Visual/Esthetic*.

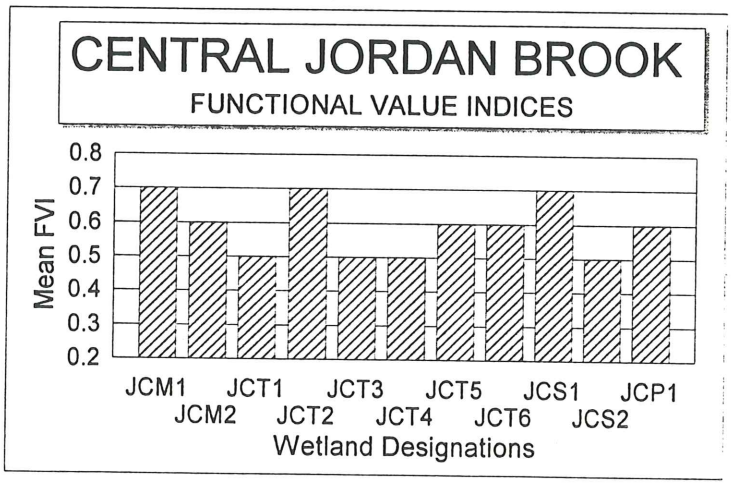
Wetland Value Units

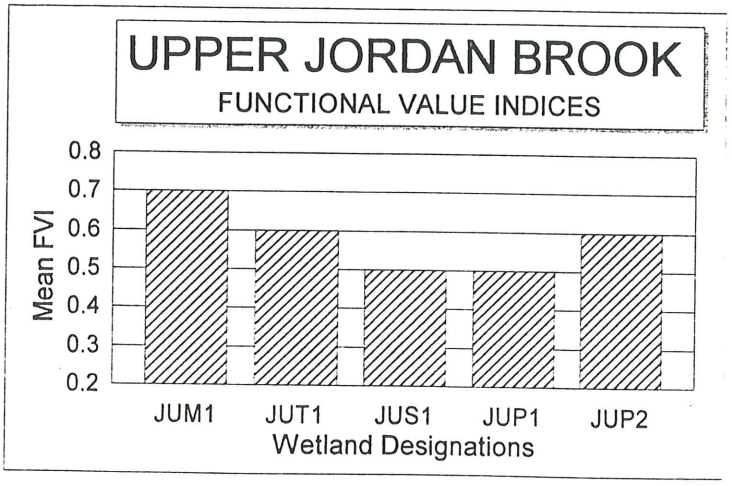
Bar graphs, arranged as above, show Wetland Value Units (WVU) which reflect the size of the various wetlands.

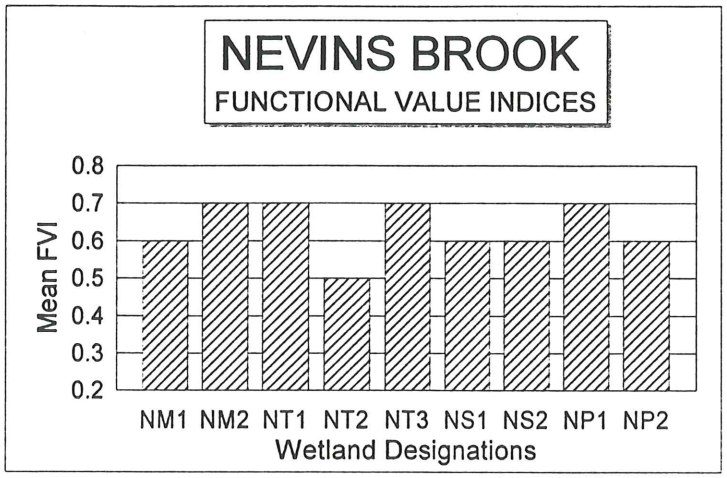
Cumulative Functional Values

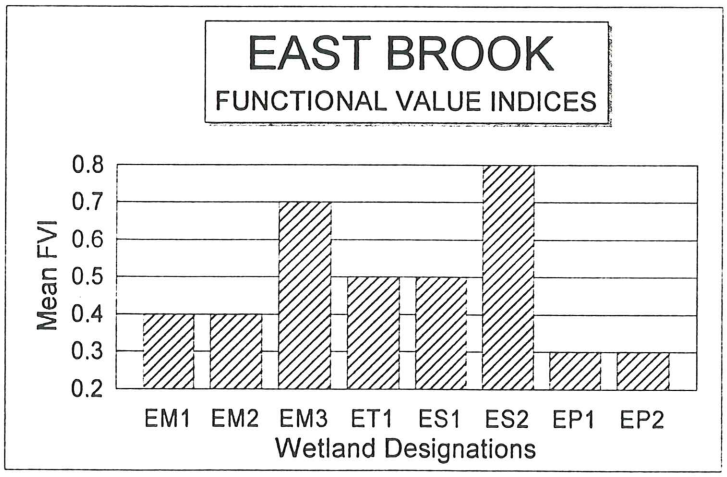
Stacked bar graphs, similarly arranged, indicate the relative importance of the four functional values for each wetland.

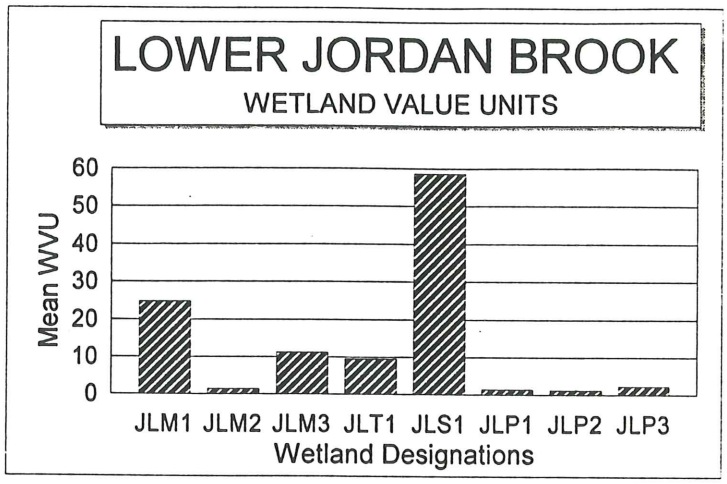

LOWER JORDAN BROOK
FUNCTIONAL VALUE INDICES
Mean FVI
0.8
0.7
0.6
0.5
0.4
0.3
0.2
JLM1 JLM2 JLM3 JLT1 JLS1 JLP1 JLP2 JLP3
Wetland Designations

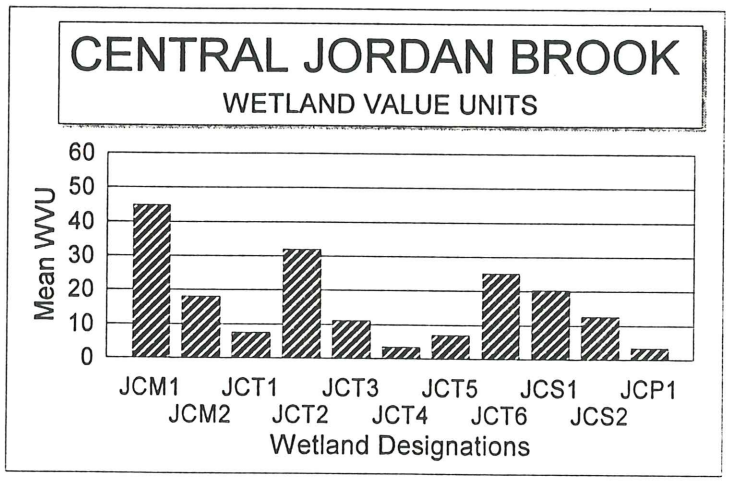

CENTRAL JORDAN BROOK
FUNCTIONAL VALUE INDICES
Mean FVI
0.8
0.7
0.6
0.5
0.4
0.3
0.2
JCM1 JCT1 JCT3 JCT5 JCS1 JCP1
JCM2 JCT2 JCT4 JCT6 JCS2
Wetland Designations

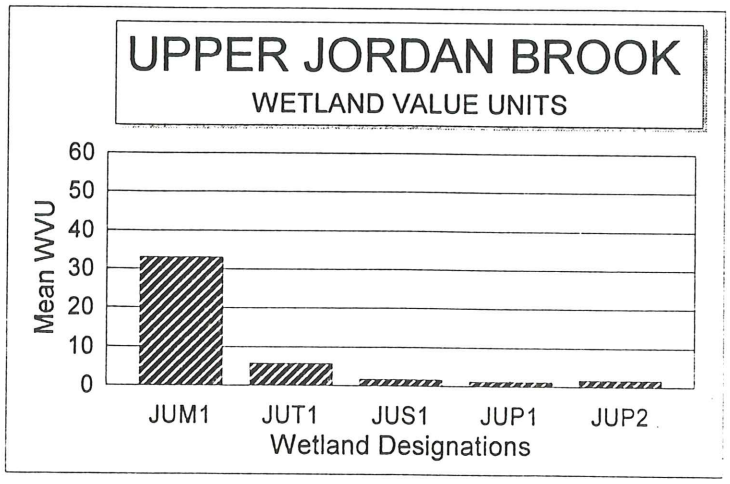

UPPER JORDAN BROOK
FUNCTIONAL VALUE INDICES
Mean FVI
0.8
0.7
0.6
0.5
0.4
0.3
0.2
JUM1 JUT1 JUS1 JUP1 JUP2
Wetland Designations

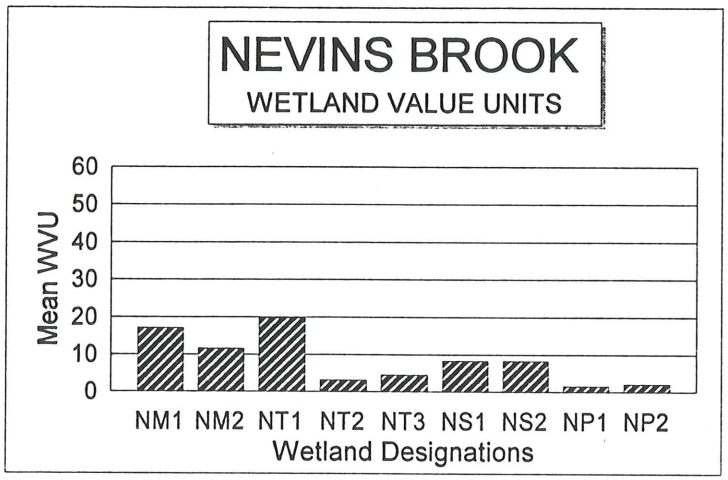

NEVINS BROOK
FUNCTIONAL VALUE INDICES
Mean FVI
0.8
0.7
0.6
0.5
0.4
0.3
0.2
NM1 NM2 NT1 NT2 NT3 NS1 NS2 NP1 NP2
Wetland Designations

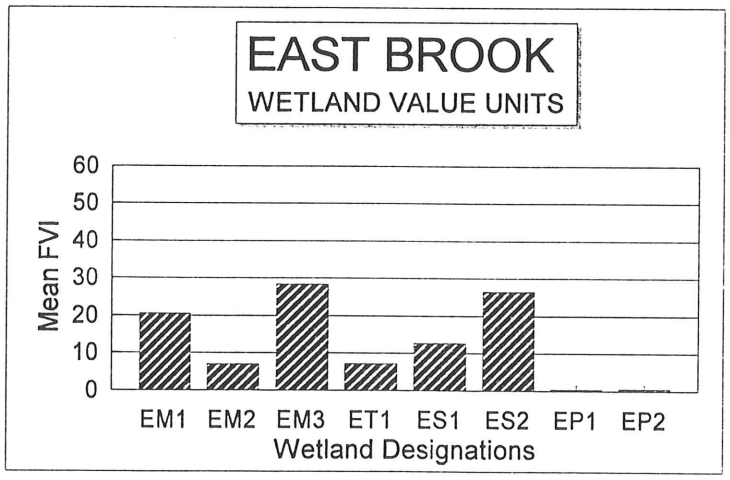

EAST BROOK
FUNCTIONAL VALUE INDICES
Mean FVI
0.8
0.7
0.6
0.5
0.4
0.3
0.2
EM1 EM2 EM3 ET1 ES1 ES2 EP1 EP2
Wetland Designations

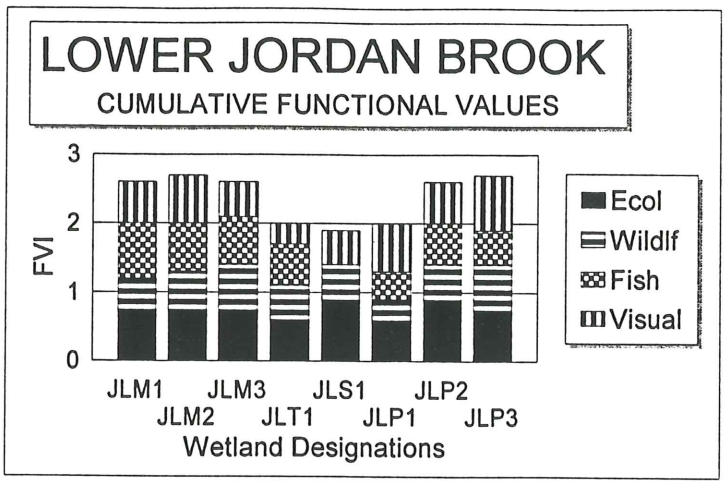

LOWER JORDAN BROOK
WETLAND VALUE UNITS
Mean WVU
60
50
40
30
20
10
0
JLM1 JLM2 JLM3 JLT1 JLS1 JLP1 JLP2 JLP3
Wetland Designations

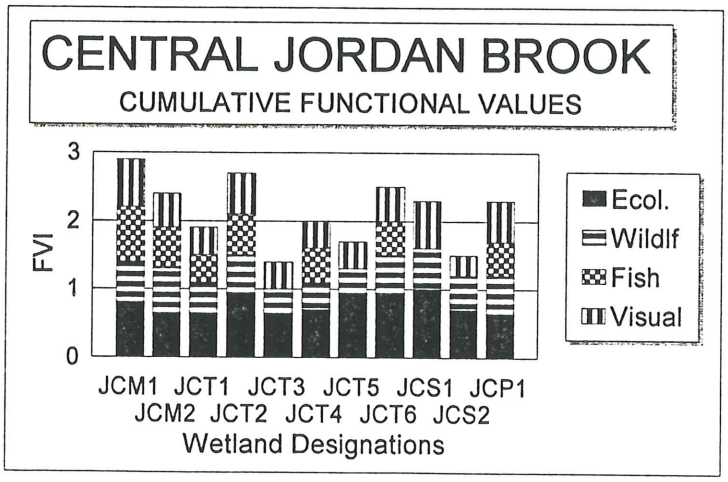

CENTRAL JORDAN BROOK
WETLAND VALUE UNITS
Mean WVU
60
50
40
30
20
10
0
JCM1 JCT1 JCT3 JCT5 JCS1 JCP1
JCM2 JCT2 JCT4 JCT6 JCS2
Wetland Designations

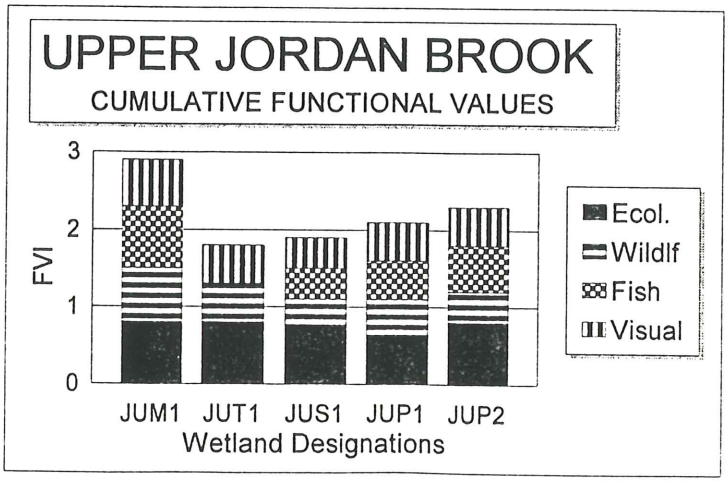

UPPER JORDAN BROOK
WETLAND VALUE UNITS
Mean WVU
60
50
40
30
20
10
0
JUM1 JUT1 JUS1 JUP1 JUP2
Wetland Designations

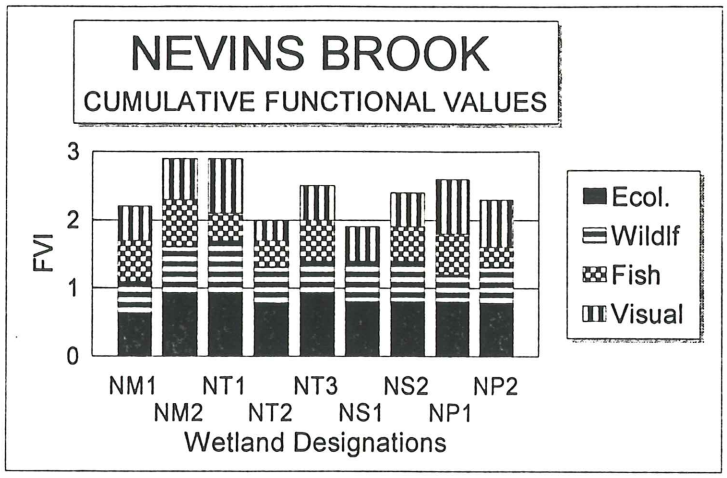

NEVINS BROOK
WETLAND VALUE UNITS
Mean WVU
60
50
40
30
20
10
0
NM1 NM2 NT1 NT2 NT3 NS1 NS2 NP1 NP2
Wetland Designations

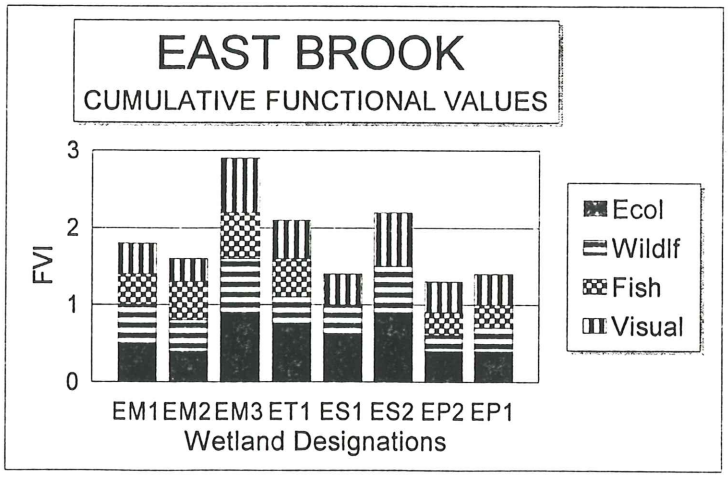

EAST BROOK
WETLAND VALUE UNITS
Mean FVI
60
50
40
30
20
10
0
EM1 EM2 EM3 ET1 ES1 ES2 EP1 EP2
Wetland Designations


LOWER JORDAN BROOK
CUMULATIVE FUNCTIONAL VALUES
FVI
3
2
1
0
JLM1
JLM2
JLM3
JLT1
JLS1
JLP1
JLP2
JLP3
Wetland Designations
Ecol
Wildlf
Fish
Visual


CENTRAL JORDAN BROOK
CUMULATIVE FUNCTIONAL VALUES
FVI
3
2
1
0
JCM1
JCM2
JCT1
JCT2
JCT3
JCT4
JCT5
JCT6
JCS1
JCS2
JCP1
Wetland Designations
Ecol.
Wildlf
Fish
Visual


UPPER JORDAN BROOK
CUMULATIVE FUNCTIONAL VALUES
FVI
3
2
1
0
JUM1
JUT1
JUS1
JUP1
JUP2
Wetland Designations
Ecol.
Wildlf
Fish
Visual


NEVINS BROOK
CUMULATIVE FUNCTIONAL VALUES
FVI
3
2
1
0
NM1
NM2
NT1
NT2
NT3
NS1
NS2
NP1
NP2
Wetland Designations
Ecol.
Wildlf
Fish
Visual


EAST BROOK
CUMULATIVE FUNCTIONAL VALUES
FVI
3
2
1
0
EM1 EM2 EM3 ET1 ES1 ES2 EP2 EP1
Wetland Designations
Ecol
Wildlf
Fish
Visual

Appendix D

TABLES OF WETLAND VALUES

Scores are shown for the individual questions within each of the four functions. The average score, i.e. Functional Value Index (FVI), is indicated for each wetland. Mean FVI is the average for two or more viewing locations within a single wetland. The area of each wetland (in acres) multiplied by the FVI gives the Wetland Value Units score (WVU) for each wetland. A summary of these data is shown in Table 3.

JORDAN BROOK WATERSHED				**WETLAND FUNCTIONAL VALUES**				
Waterford, CT								
		LOWER	JORDAN	BROOK				
Functional Values	Question	JLM1A	JLM1B	JLM2	JLM3	JLT1	JLS1	JLP1
Function 1								
Ecological Integrity								
	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.2	1.0	1.0	0.1	0.1	0.1	1.0	1.0
	1.3	0.5	0.5	1.0	1.0	0.1	1.0	0.1
	1.4	0.1	0.1	0.1	0.5	0.1	0.5	0.1
	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.6	0.1	0.1	0.5	0.5	0.1	1.0	0.1
	1.7	1.0	0.5	0.5	0.5	0.1	0.1	0.1
	1.8	0.1	0.5	0.5	0.1	0.1	0.5	0.1
	1.9	1.0	1.0	1.0	1.0	1.0	0.5	0.1
	1.10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.12	1.0	1.0	0.5	1.0	1.0	1.0	0.1
	FVI	0.7	0.7	0.7	0.7	0.6	0.8	0.5
	Mean FVI	0.7						
	AREA	37.4		2.0	17.1	18.9	93.9	3.0
	WVU	27.3		1.4	12.4	10.4	75.1	1.4
Function 2								
Wildlife Habitat								
	2.1	0.7	0.7	0.7	0.7	0.6	0.8	0.5
	2.2	1.0	1.0	0.1	1.0	1.0	1.0	0.5
	2.3	0.5	0.5	0.1	0.5	0.1	0.1	0.5
	2.4	0.5	0.5	1.0	0.5	1.0	0.1	0.1
	2.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
	2.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	2.7	0.1	0.1	1.0	1.0	0.5	1.0	0.5
	2.8	0.5	0.5	1.0	1.0	0.1	1.0	0.1
	FVI	0.5	0.5	0.6	0.7	0.5	0.6	0.4
	Mean FVI	0.5						
	AREA	37.4		2.0	17.1	18.9	93.9	3.0
	WVU	18.4		1.1	11.4	9.1	54.0	1.2
Function 3A							N/A	N/A
Fish Habitat Streams								
	3.1	1.0	1.0	1.0	1.0	1.0		
	3.2	0.1	0.1	0.1	0.1	0.1		
	3.3	1.0	1.0	0.5	0.5	0.5		
	3.4	1.0	1.0	1.0	1.0	0.1		
	3.5	0.5	0.5	0.5	0.5	0.5		

JORDAN BROOK WATERSHED				**WETLAND FUNCTIONAL VALUES**				
Waterford, CT								
		LOWER	JORDAN	BROOK				
Functional Values	Question	JLM1A	JLM1B	JLM2	JLM3	JLT1	JLS1	JLP1
	3.6	1.0	1.0	1.0	1.0	1.0		
	3.7	1.0	1.0	1.0	0.5	1.0		
	3.8	1.0	1.0	0.5	1.0	0.5		
	3.9	0.5	1.0	1.0	1.0	1.0		
	FVI	0.8	0.8	0.7	0.7	0.6		
	Mean FVI	0.8						
	AREA	37.4		2.0	17.1	18.9		
	WVU	30.5		1.5	12.5	12.0		
Function 3B								
Fish Habitat Ponds								
		N/A	N/A	N/A	N/A	N/A	N/A	
	3.1							1.0
	3.2							0.1
	3.3							0.5
	3.4							0.1
	3.5							0.5
	3.6							0.1
	FVI							0.4
	Mean FVI							
	AREA							3.0
	WVU							1.2
Function 5								
Visual/Esthetic	5.1	0.1	0.1	0.1	0.5	0.1	0.5	0.1
	5.2	0.5	0.1	0.1	0.1	0.1	0.1	1.0
	5.3	1.0	0.1	1.0	1.0	0.5	0.1	1.0
	5.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	5.5	0.1	1.0	1.0	0.1	0.1	0.1	1.0
	5.6	1.0	0.5	0.5	0.5	0.5	0.5	0.5
	5.7	0.5	0.5	1.0	0.1	0.1	0.1	0.5
	5.8	1.0	0.5	1.0	1.0	0.5	1.0	0.5
	5.9	1.0	1.0	1.0	0.1	0.1	1.0	1.0
	5.10	0.5	0.5	0.6	0.7	0.5	0.6	0.4
	FVI	0.7	0.5	0.7	0.5	0.3	0.5	0.7
	Mean FVI	0.6						
	AREA	37.4		2.0	17.1	18.9	93.9	3.0
	WVU	22.5		1.5	8.7	6.6	46.7	2.1

JORDAN BROOK WATERSHED								
Waterford, CT								
				CENTRAL JORDAN BROOK				
Functional Values	Question	JLP2	JLP3	JCM1	JCM2A	JCT1	JCT2A	JCT2B
Function 1								
Ecological Integrity								
	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.2	1.0	1.0	0.1	0.1	0.5	1.0	1.0
	1.3	0.5	0.1	1.0	1.0	0.1	1.0	1.0
	1.4	0.1	0.1	1.0	0.5	0.5	0.5	0.5
	1.5	1.0	1.0	1.0	0.5	0.1	1.0	1.0
	1.6	0.5	0.5	1.0	0.5	1.0	1.0	1.0
	1.7	1.0	0.5	0.5	0.5	0.1	1.0	0.5
	1.8	1.0	0.5	0.5	0.1	0.1	1.0	0.5
	1.9	1.0	1.0	1.0	0.1	0.5	1.0	1.0
	1.10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.12	0.5	0.5	1.0	1.0	1.0	1.0	0.5
	FVI	0.8	0.7	0.8	0.6	0.6	1.0	0.8
	Mean FVI						0.9	
	AREA	2.1	3.4	60.1	31.4	16.3	47.0	
	WVU	1.7	2.3	50.6	19.1	9.4	42.1	
Function 2								
Wildlife Habitat								
	2.1	0.8	0.7	0.8	0.6	0.6	1.0	0.8
	2.2	0.1	0.5	1.0	1.0	1.0	1.0	1.0
	2.3	0.5	1.0	0.5	1.0	0.1	0.5	0.5
	2.4	0.5	0.5	0.5	1.0	0.5	0.5	0.5
	2.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5
	2.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	2.7	0.5	1.0	0.5	0.5	0.1	0.5	0.5
	2.8	1.0	1.0	1.0	0.5	1.0	1.0	1.0
	FVI	0.6	0.7	0.6	0.7	0.5	0.6	0.6
	Mean FVI						0.6	
	AREA	2.1	3.4	60.1	31.4	16.3	47.0	
	WVU	1.2	2.5	37.1	20.4	7.9	29.4	
Function 3A		N/A	N/A					
Fish Habitat Streams								
	3.1			1.0	1.0	1.0	1.0	1.0
	3.2			0.1	0.1	0.1	0.1	0.1
	3.3			0.5	0.5	0.1	0.1	0.1
	3.4			1.0	1.0	0.5	1.0	1.0
	3.5			0.5	0.5	0.1	0.5	0.5

JORDAN BROOK WATERSHED								
Waterford, CT								
				CENTRAL JORDAN BROOK				
Functional Values	Question	JLP2	JLP3	JCM1	JCM2A	JCT1	JCT2A	JCT2B
	3.6			1.0	0.5	0.5	1.0	1.0
	3.7			1.0	0.1	0.5	1.0	0.5
	3.8			1.0	0.5	0.5	0.5	0.5
	3.9			1.0	1.0	0.1	0.1	0.5
	FVI			0.8	0.6	0.4	0.6	0.6
	Mean FVI						0.6	
	AREA			60.1	31.4	16.3	47.0	
	WVU			47.4	18.1	6.2	27.4	
Function 3B								
Fish Habitat Ponds								
				N/A	N/A	N/A	N/A	N/A
	3.1	1.0	1.0					
	3.2	0.1	0.1					
	3.3	0.1	0.1					
	3.4	0.5	0.5					
	3.5	1.0	1.0					
	3.6	1.0	0.5					
	FVI	0.6	0.5					
	Mean FVI							
	AREA	2.1	3.4					
	WVU	1.3	1.8					
Function 5								
Visual/Esthetic	5.1	0.5	0.5	0.5	0.1	0.5	1.0	0.5
	5.2	1.0	1.0	0.1	0.1	1.0	0.1	0.1
	5.3	0.5	0.5	1.0	0.1	0.1	1.0	0.1
	5.4	1.0	1.0	1.0	1.0	1.0	1.0	0.5
	5.5	0.5	1.0	1.0	0.5	0.1	1.0	0.5
	5.6	0.5	0.5	1.0	0.5	0.1	1.0	0.5
	5.7	0.1	1.0	0.1	1.0	0.1	0.5	0.5
	5.8	0.5	1.0	1.0	0.5	0.5	1.0	0.5
	5.9	0.5	1.0	1.0	0.1	0.1	1.0	0.1
	5.10	0.6	0.7	0.6	0.7	0.5	0.6	0.6
	FVI	0.6	0.8	0.7	0.5	0.4	0.8	0.4
	Mean FVI						0.6	
	AREA	2.1	3.4	60.1	31.4	16.3	47.0	
	WVU	1.2	2.8	44.0	14.3	6.5	28.6	

JORDAN BROOK WATERSHED								
Waterford, CT								
		CENTRAL JORDAN BROOK						
Functional Values	Question	JCT3	JCT4	JCT5	JCT6	JCS1	JCS2A	JCP1
Function 1								
Ecological Integrity								
	1.1	1.0	1.0	1.0	0.5	1.0	1.0	1.0
	1.2	0.5	0.1	1.0	1.0	1.0	1.0	1.0
	1.3	0.1	0.1	1.0	1.0	1.0	0.1	0.1
	1.4	0.5	0.1	1.0	0.5	1.0	0.5	1.0
	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.6	0.1	0.1	1.0	1.0	1.0	0.5	1.0
	1.7	0.5	0.5	1.0	1.0	1.0	0.1	0.1
	1.8	0.5	1.0	0.5	1.0	1.0	0.1	0.1
	1.9	1.0	1.0	1.0	1.0	1.0	1.0	0.1
	1.10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	0.5	1.0	1.0	1.0	1.0	1.0	1.0
	1.12	1.0	1.0	0.5	1.0	0.5	0.5	0.1
	FVI	0.6	0.7	0.9	0.9	1.0	0.7	0.6
	Mean FVI							
	AREA	22.7	7.0	12.4	40.4	27.1	26.6	6.0
	WVU	14.6	4.6	11.4	37.0	26.0	17.3	3.8
Function 2								
Wildlife Habitat								
	2.1	0.6	0.7	0.9	0.9	1.0	0.7	0.6
	2.2	1.0	0.5	0.1	1.0	1.0	1.0	0.5
	2.3	0.1	0.1	0.1	0.1	0.1	0.1	1.0
	2.4	0.1	0.1	0.1	0.1	0.1	1.0	0.1
	2.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
	2.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	2.7	0.5	1.0	0.1	1.0	1.0	0.1	0.5
	2.8	0.1	0.1	1.0	1.0	1.0	0.5	1.0
	FVI	0.4	0.4	0.4	0.6	0.6	0.5	0.6
	Mean FVI							
	AREA	22.7	7.0	12.4	40.4	27.1	26.6	6.0
	WVU	8.6	2.7	4.5	23.8	16.1	13.1	3.6
Function 3A		N/A		N/A		N/A	N/A	N/A
Fish Habitat Streams								
	3.1		1.0		0.5			
	3.2		0.1		0.1			
	3.3		0.1		0.1			
	3.4		1.0		1.0			
	3.5		0.1		0.1			

JORDAN BROOK WATERSHED								
Waterford, CT								
		CENTRAL JORDAN BROOK						
Functional Values	Question	JCT3	JCT4	JCT5	JCT6	JCS1	JCS2A	JCP1
	3.6		0.5		1.0			
	3.7		1.0		1.0			
	3.8		0.5		0.5			
	3.9		0.1		0.5			
	FVI		0.5		0.5			
	Mean FVI							
	AREA		7.0		40.4			
	WVU		3.4		21.5			
Function 3B								
Fish Habitat Ponds								
		N/A	N/A	N/A	N/A	N/A	N/A	
	3.1							1.0
	3.2							0.1
	3.3							0.5
	3.4							0.5
	3.5							0.5
	3.6							0.1
	FVI							0.5
	Mean FVI							
	AREA							6.0
	WVU							2.7
Function 5								
Visual/Esthetic	5.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	5.2	0.1	1.0	0.1	0.1	0.5	0.1	1.0
	5.3	0.5	0.5	0.1	0.1	1.0	0.1	0.5
	5.4	1.0	0.1	0.5	1.0	1.0	0.1	1.0
	5.5	0.1	0.1	0.1	0.1	0.1	0.1	1.0
	5.6	0.5	0.5	0.5	1.0	1.0	0.1	0.1
	5.7	0.1	0.1	0.5	0.5	0.5	0.1	0.1
	5.8	0.5	1.0	0.5	1.0	1.0	0.5	1.0
	5.9	1.0	0.5	1.0	0.1	1.0	1.0	0.1
	5.10	0.4	0.4	0.4	0.6	0.6	0.5	0.6
	FVI	0.4	0.4	0.4	0.5	0.7	0.3	0.6
	Mean FVI							
	AREA	22.7	7.0	12.4	40.4	27.1	26.6	6.0
	WVU	9.7	3.0	4.7	18.5	18.4	7.2	3.3

JORDAN BROOK WATERSHED							
Waterford, CT							
		UPPER JORDAN BROOK					
Functional Values	Question	JUM1A	JUM1B	JUT1	JUS1	JUP1	JUP2
Function 1							
Ecological Integrity							
	1.1	1.0	1.0	1.0	1.0	1.0	1.0
	1.2	0.5	0.5	1.0	1.0	N/A	1.0
	1.3	1.0	1.0	1.0	1.0	0.1	1.0
	1.4	0.5	0.5	1.0	1.0	0.1	0.5
	1.5	1.0	1.0	0.1	0.5	1.0	1.0
	1.6	0.5	0.5	1.0	0.1	0.1	0.5
	1.7	1.0	1.0	0.5	0.5	1.0	1.0
	1.8	0.1	1.0	0.5	0.1	0.1	0.5
	1.9	1.0	1.0	0.1	0.5	1.0	0.5
	1.10	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	1.0	1.0	1.0	1.0	1.0	1.0
	1.12	0.5	1.0	1.0	0.5	0.5	0.1
	FVI	0.8	0.9	0.8	0.7	0.6	0.8
	Mean FVI	0.8					
	AREA	45.5		9.5	3.6	2.2	2.8
	WVU	37.2		7.3	2.5	1.3	2.1
Function 2							
Wildlife Habitat							
	2.1	0.8	0.9	0.8	0.7	0.6	0.8
	2.2	1.0	1.0	0.5	0.5	0.5	0.1
	2.3	1.0	1.0	0.1	0.1	1.0	0.5
	2.4	0.5	0.5	0.1	0.5	0.1	0.5
	2.5	0.5	0.5	0.5	0.5	1.0	1.0
	2.6	0.5	0.5	0.1	0.1	0.1	0.1
	2.7	0.1	0.1	1.0	1.0	0.5	0.5
	2.8	1.0	1.0	1.0	0.1	0.1	0.1
	FVI	0.7	0.7	0.5	0.4	0.5	0.4
	Mean FVI	0.7					
	AREA	45.5		9.5	3.6	2.2	2.8
	WVU	30.8		4.8	1.6	1.1	1.2
Function 3A				N/A	N/A	N/A	N/A
Fish Habitat Streams							
	3.1	1.0	1.0				
	3.2	0.1	0.1				
	3.3	0.5	0.5				
	3.4	1.0	1.0				

JORDAN BROOK WATERSHED							
Waterford, CT							
		UPPER JORDAN BROOK					
Functional Values	Question	JUM1A	JUM1B	JUT1	JUS1	JUP1	JUP2
	3.5	0.5	0.5				
	3.6	1.0	1.0				
	3.7	0.5	1.0				
	3.8	1.0	1.0				
	3.9	1.0	1.0				
	FVI	0.7	0.8				
	Mean FVI	0.8					
	AREA	45.5					
	WVU	34.6					
Function 3B							
Fish Habitat Ponds							
		N/A	N/A	N/A			
	3.1				1.0	1.0	1.0
	3.2				0.1	0.1	0.1
	3.3				0.5	0.5	0.1
	3.4				0.1	0.1	0.5
	3.5				0.5	1.0	1.0
	3.6				0.1	0.1	1.0
	FVI				0.4	0.5	0.6
	Mean FVI						
	AREA				3.6	2.2	2.8
	WVU				1.4	1.0	1.7
Function 5							
Visual/Esthetic	5.1	1.0	0.5	0.5	0.1	0.1	0.1
	5.2	0.1	0.1	0.5	0.5	1.0	1.0
	5.3	0.1	1.0	0.5	0.1	0.1	0.1
	5.4	1.0	1.0	1.0	1.0	1.0	1.0
	5.5	0.1	0.5	0.1	0.5	1.0	1.0
	5.6	0.1	1.0	0.1	0.5	0.1	0.5
	5.7	0.5	0.5	1.0	0.5	0.1	0.1
	5.8	1.0	1.0	0.5	0.5	0.5	1.0
	5.9	1.0	1.0	0.1	0.1	0.5	0.1
	5.10	0.7	0.7	0.5	0.4	0.5	0.4
	FVI	0.6	0.7	0.5	0.4	0.5	0.5
	Mean FVI	0.6					
	AREA	45.5		9.5	3.6	2.2	2.8
	WVU	29.2		4.6	1.5	1.1	1.5

JORDAN BROOK WATERSHED								
Waterford, CT								
		NEVINS BROOK						
Functional Values	Question	NM1A	NM1B	NM1C	NM2A	NM2B	NT1	NT2A
Function 1								
Ecological Integrity								
	1.1	1.0	1.0	1.0	1.0	1.0	1.0	0.1
	1.2	0.1	0.1	0.1	0.1	0.1	1.0	1.0
	1.3	0.5	0.5	0.5	1.0	1.0	1.0	1.0
	1.4	0.1	0.1	0.1	1.0	1.0	0.1	1.0
	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.6	0.1	0.1	0.1	1.0	1.0	1.0	1.0
	1.7	0.1	1.0	0.1	1.0	1.0	1.0	0.5
	1.8	0.1	1.0	0.1	1.0	1.0	1.0	0.5
	1.9	1.0	1.0	0.5	1.0	1.0	1.0	1.0
	1.10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.12	1.0	1.0	1.0	1.0	1.0	1.0	0.5
	FVI	0.6	0.7	0.5	0.9	0.9	0.9	0.8
	Mean FVI	0.6			0.9			0.7
	AREA	30.3			16.3		26.8	6.5
	WVU	18.8			15.1		24.8	4.4
Function 2								
Wildlife Habitat								
	2.1	0.6	0.7	0.5	0.9	0.9	0.9	0.8
	2.2	1.0	1.0	1.0	1.0	1.0	1.0	0.5
	2.3	1.0	1.0	1.0	0.5	0.5	0.5	0.1
	2.4	0.5	0.5	0.5	0.5	0.5	1.0	1.0
	2.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	2.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	2.7	0.5	0.5	0.5	1.0	0.5	1.0	1.0
	2.8	0.1	0.1	0.1	1.0	1.0	1.0	1.0
	FVI	0.5	0.6	0.5	0.7	0.6	0.8	0.6
	Mean FVI	0.5			0.7			0.6
	AREA	30.3			16.3		26.8	6.5
	WVU	16.4			10.7		20.2	4.0
Function 3A								
Fish Habitat Streams								
	3.1	1.0	1.0	1.0	1.0	1.0	1.0	0.1
	3.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3.3	0.5	0.5	0.5	0.5	0.5	0.1	0.1
	3.4	0.5	0.5	0.5	1.0	1.0	0.1	1.0
	3.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1

JORDAN BROOK WATERSHED								
Waterford, CT								
		NEVINS BROOK						
Functional Values	Question	NM1A	NM1B	NM1C	NM2A	NM2B	NT1	NT2A
	3.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	3.7	0.5	1.0	1.0	1.0	1.0	1.0	0.5
	3.8	0.5	1.0	1.0	1.0	0.5	0.5	1.0
	3.9	0.1	1.0	0.1	0.5	0.1	0.1	0.1
	FVI	0.5	0.7	0.6	0.7	0.6	0.4	0.4
	Mean FVI	0.6			0.7			0.4
	AREA	30.3			16.3		26.8	6.5
	WVU	19.1	0.0	0.0	10.8		11.9	2.7
Function 3B								
Fish Habitat Ponds								
		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.1							
	3.2							
	3.3							
	3.4							
	3.5							
	3.6							
	FVI							
	Mean FVI							
	AREA							
	WVU							
Function 5								
Visual/Esthetic	5.1	0.5	0.5	0.5	0.5	0.5	1.0	0.5
	5.2	0.5	0.5	0.1	0.5	0.1	0.1	0.1
	5.3	0.1	0.5	0.1	1.0	0.1	1.0	0.1
	5.4	0.5	1.0	1.0	1.0	1.0	1.0	0.5
	5.5	0.1	0.5	0.1	0.1	0.1	1.0	0.1
	5.6	0.5	1.0	0.1	1.0	1.0	1.0	0.5
	5.7	0.1	0.1	0.1	0.1	0.5	0.5	0.1
	5.8	0.5	1.0	0.5	1.0	1.0	1.0	1.0
	5.9	0.1	1.0	0.5	0.5	0.5	1.0	0.5
	5.10	0.5	0.6	0.5	0.7	0.6	0.8	0.6
	FVI	0.3	0.7	0.4	0.6	0.5	0.8	0.4
	Mean FVI	0.5			0.6			0.3
	AREA	30.3			16.3		26.8	6.5
	WVU	13.8			9.6		22.4	1.9

JORDAN BROOK WATERSHED							
Waterford, CT							
		NEVINS BROOK					
Functional							
Values	Question	NT2B	NT3	NS1	NS2A	NP1A	NP2
	3.5	0.1	0.1				
	3.6	1.0	1.0				
	3.7	0.5	1.0				
	3.8	0.5	1.0				
	3.9	0.1	0.5				
	FVI	0.4	0.6				
	Mean FVI						
	AREA		7.1				
	WVU		4.6				
Function 3B							
Fish Habitat Ponds							
		N/A	N/A	N/A			
	3.1				1.0	1.0	1.0
	3.2				0.1	0.1	0.1
	3.3				0.5	0.1	0.5
	3.4				0.1	0.5	0.1
	3.5				1.0	1.0	0.1
	3.6				0.1	1.0	0.1
	FVI				0.5	0.6	0.3
	Mean FVI						
	AREA				14.4	2.5	3.7
	WVU				6.7	1.5	1.2
Function 5							
Visual/Esthetic	5.1	0.5	0.5	0.1	1.0	1.0	0.5
	5.2	0.1	0.1	0.1	1.0	1.0	1.0
	5.3	0.1	0.1	1.0	0.1	0.5	1.0
	5.4	0.1	1.0	0.5	0.5	1.0	1.0
	5.5	0.1	0.1	0.1	0.1	1.0	0.5
	5.6	0.1	1.0	0.5	0.5	1.0	0.5
	5.7	0.1	0.5	0.5	0.1	0.5	0.1
	5.8	0.1	1.0	0.5	0.5	1.0	0.5
	5.9	0.1	0.5	1.0	1.0	1.0	1.0
	5.10	0.6	0.5	0.6	0.6	0.4	0.6
	FVI	0.2	0.5	0.5	0.5	0.8	0.7
	Mean FVI						
	AREA		7.1	13.9	14.4	2.5	3.7
	WVU		3.8	6.8	7.7	2.1	2.5

JORDAN BROOK WATERSHED							
Waterford, CT							
		NEVINS BROOK					
Functional Values	Question	NT2B	NT3	NS1	NS2A	NP1A	NP2
Function 1							
Ecological Integrity							
	1.1	0.1	1.0	1.0	1.0	1.0	1.0
	1.2	1.0	0.1	1.0	1.0	1.0	1.0
	1.3	0.1	1.0	0.5	0.5	1.0	0.5
	1.4	1.0	1.0	0.1	0.1	0.1	0.1
	1.5	0.1	1.0	1.0	1.0	1.0	1.0
	1.6	1.0	1.0	0.5	1.0	0.1	0.1
	1.7	0.1	1.0	0.5	0.5	1.0	0.5
	1.8	0.1	1.0	0.5	0.5	0.5	0.5
	1.9	1.0	1.0	1.0	1.0	0.5	1.0
	1.10	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	0.1	1.0	1.0	1.0	1.0	1.0
	1.12	1.0	1.0	1.0	0.5	1.0	1.0
	FVI	0.6	0.9	0.8	0.8	0.8	0.7
	Mean FVI						
	AREA		7.1	13.9	14.4	2.5	3.7
	WVU		6.6	10.5	10.9	1.9	2.7
Function 2							
Wildlife Habitat							
	2.1	0.6	0.9	0.8	0.8	0.8	0.7
	2.2	0.5	0.5	1.0	1.0	0.1	0.5
	2.3	0.1	0.1	0.1	0.5	0.5	1.0
	2.4	1.0	0.5	0.5	1.0	0.5	0.5
	2.5	0.5	0.5	0.5	0.5	1.0	1.0
	2.6	0.1	0.1	0.1	0.1	0.1	0.1
	2.7	1.0	1.0	0.5	0.1	0.5	0.5
	2.8	1.0	0.5	1.0	0.5	0.1	0.1
	FVI	0.6	0.5	0.6	0.6	0.4	0.6
	Mean FVI						
	AREA		7.1	13.9	14.4	2.5	3.7
	WVU		3.7	7.7	8.0	1.1	2.0
Function 3A				N/A	N/A	N/A	N/A
Fish Habitat Streams							
	3.1	0.1	1.0				
	3.2	0.1	0.1				
	3.3	0.1	0.1				
	3.4	1.0	1.0				

JORDAN BROOK WATERSHED								
Waterford, CT								
		EAST BROOK						
Functional Values	Question	EM1A	EM1B	EM2	EM3A	EM3B	ET1	ES1
Function 1								
Ecological Integrity								
	1.1	0.5	0.5	0.5	0.5	0.5	1.0	0.5
	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.3	0.1	0.1	0.1	1.0	1.0	0.1	0.1
	1.4	0.5	0.5	0.1	0.5	0.5	0.1	0.5
	1.5	0.5	1.0	0.5	1.0	1.0	0.5	0.5
	1.6	0.1	0.1	0.1	1.0	1.0	0.5	0.1
	1.7	0.1	0.1	0.1	1.0	0.5	1.0	0.5
	1.8	0.1	0.1	0.1	1.0	0.5	0.1	0.5
	1.9	0.5	0.5	0.1	1.0	1.0	1.0	1.0
	1.10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.11	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.12	0.5	0.1	0.5	1.0	1.0	0.5	0.1
	FVI	0.5	0.5	0.4	0.9	0.8	0.7	0.6
	Mean FVI	0.5			0.9			
	AREA	47.3		17.8	39.9		14.3	27.5
	WVU	23.5		7.6	34.9		9.3	15.6
Function 2								
Wildlife Habitat								
	2.1	0.5	0.5	0.4	0.9	0.8	0.7	0.6
	2.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.3	0.5	0.5	0.1	0.1	0.5	0.1	0.1
	2.4	0.5	0.5	0.1	1.0	1.0	0.1	0.5
	2.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	2.6	0.1	0.1	0.1	0.5	0.5	0.1	0.1
	2.7	0.1	0.1	0.5	0.5	0.5	0.1	0.1
	2.8	0.5	0.5	0.1	1.0	1.0	0.5	0.1
	FVI	0.5	0.5	0.4	0.7	0.7	0.4	0.4
	Mean FVI	0.5			0.7			
	AREA	47.3		17.8	39.9		14.3	27.5
	WVU	21.9		6.3	28.3		5.5	10.2
Function 3A								N/A
Fish Habitat Streams								
	3.1	0.5	0.5	0.5	0.5	0.5	1.0	
	3.2	0.1	0.1	0.1	0.1	0.1	0.1	
	3.3	0.5	0.5	0.5	0.1	0.1	0.1	
	3.4	0.1	0.1	1.0	1.0	1.0	0.5	
	3.5	0.5	0.5	0.5	0.5	0.1	0.1	

JORDAN BROOK WATERSHED								
Waterford, CT								
		EAST BROOK						
Functional Values	Question	EM1A	EM1B	EM2	EM3A	EM3B	ET1	ES1
	3.6	0.5	0.5	0.5	1.0	1.0	1.0	
	3.7	0.5	0.5	0.5	1.0	1.0	0.5	
	3.8	0.5	0.5	0.5	1.0	0.5	0.5	
	3.9	0.5	0.5	0.1	1.0	0.1	0.5	
	FVI	0.4	0.4	0.5	0.7	0.5	0.5	
	Mean FVI	0.4			0.6			
	AREA	47.3		17.8	39.9		14.3	
	WVU	19.4		8.3	23.5		6.8	
Function 3B								
Fish Habitat Ponds								
		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.1							
	3.2							
	3.3							
	3.4							
	3.5							
	3.6							
	FVI							
	Mean FVI							
	AREA							
	WVU							
Function 5								
Visual/Esthetic	5.1	0.1	0.5	0.1	0.1	0.1	0.5	1.0
	5.2	0.5	0.5	0.5	0.1	0.1	0.1	1.0
	5.3	0.5	0.5	0.1	1.0	0.5	0.5	0.5
	5.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	5.5	0.1	0.1	0.1	1.0	0.1	0.1	0.1
	5.6	0.1	0.1	0.1	1.0	1.0	0.5	0.1
	5.7	0.1	0.1	0.5	0.5	1.0	0.1	0.1
	5.8	0.5	0.1	0.1	1.0	1.0	1.0	0.1
	5.9	0.1	0.5	0.1	0.5	1.0	0.5	0.1
	5.10	0.5	0.5	0.4	0.7	0.7	0.4	0.4
	FVI	0.3	0.4	0.3	0.7	0.7	0.5	0.4
	Mean FVI	0.4			0.7			
	AREA	47.3		17.8	39.9		14.3	27.5
	WVU	17.3		5.3	26.8		6.7	12.0

JORDAN BROOK WATERSHED				
Waterford, CT				
		EAST BROOK		
Functional				
Values	Question	ES2	EP1	EP2
Function 1				
Ecological Integrity				
	1.1	1.0	0.5	0.1
	1.2	1.0	1.0	1.0
	1.3	0.5	0.1	0.1
	1.4	0.5	0.1	0.1
	1.5	1.0	0.5	0.5
	1.6	1.0	0.1	0.1
	1.7	1.0	0.1	0.1
	1.8	1.0	0.1	0.1
	1.9	1.0	0.1	0.1
	1.10	1.0	1.0	1.0
	1.11	1.0	1.0	1.0
	1.12	1.0	0.1	0.1
	FVI	0.9	0.4	0.4
	Mean FVI			
	AREA	34.9	0.8	1.2
	WVU	32.0	0.3	0.4
Function 2				
Wildlife Habitat				
	2.1	0.9	0.4	0.4
	2.2	1.0	0.1	0.1
	2.3	0.1	0.1	0.5
	2.4	0.1	0.1	0.1
	2.5	0.5	1.0	1.0
	2.6	0.5	0.1	0.1
	2.7	1.0	0.1	0.1
	2.8	1.0	0.1	0.1
	FVI	0.6	0.2	0.3
	Mean FVI			
	AREA	34.9	0.8	1.2
	WVU	22.3	0.2	0.4
Function 3A		N/A	N/A	N/A
Fish Habitat Streams				
	3.1			
	3.2			
	3.3			
	3.4			

JORDAN BROOK WATERSHED				
Waterford, CT				
		EAST BROOK		
Functional				
Values	Question	ES2	EP1	EP2
	3.5			
	3.6			
	3.7			
	3.8			
	3.9			
	FVI			
	Mean FVI			
	AREA			
	WVU			
Function 3B				
Fish Habitat Ponds				
		N/A		
	3.1		0.5	0.1
	3.2		0.1	0.1
	3.3		0.1	0.1
	3.4		0.1	0.5
	3.5		0.1	0.1
	3.6		1.0	1.0
	FVI		0.3	0.3
	Mean FVI			
	AREA		0.8	1.2
	WVU		0.3	0.4
Function 5				
Visual/Esthetic	5.1	0.5	0.1	0.1
	5.2	0.5	1.0	1.0
	5.3	1.0	0.5	0.1
	5.4	1.0	0.1	0.5
	5.5	0.1	0.5	0.5
	5.6	1.0	0.5	0.5
	5.7	0.5	0.1	0.1
	5.8	1.0	0.5	0.5
	5.9	1.0	0.1	0.1
	5.10	0.6	0.2	0.3
	FVI	0.7	0.4	0.4
	Mean FVI			
	AREA	34.9	0.8	1.2
	WVU	25.3	0.3	0.4