

**APPENDIX C**

**WETLAND ASSESSMENT SCORE SHEET**



**Wetland Assessment Score Sheet**  
**Bronx River Watershed, Westchester County, New York**

**Wetland Functional Assessment**

Site ID: \_\_\_\_\_

<b>Ability to Protect and Improve Water Quality</b>						
<i>Element</i>	<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
Determine NYSDEC water quality classification of associated waterbody or watercourse		Class D	Class C	Class C(t)	Class B	Class A or AA
Known water impairment		Precluded	Impaired	Stressed	Threatened	No Known Impairments
Evidence of poor water quality (e.g., turbidity surface sheen, smell of pollutants, algae)		Present, potential problem		Present, not significant		None observed
Hydrologic condition/landscape position		Narrow fringe wetland		Broad floodplain, single or braided	Flow through / does not retain water	Retains water in permanent or seasonal ponds
Wetland width, relating to impact on potential to improve water quality		Low potential		Moderate potential	High potential	
Sheet versus channel flow		Primarily in channel		Occasional sheetflow (10 – 50%)	Predominantly sheetflow (>50%)	
Dominant soil type		Sandy soils		Organic soils	Mineral soils	
Evidence of concentrated runoff (swales, gullies, pipes, etc.) that transports water directly to channel and not through vegetated areas for filtration		Present, causing potential problem		Present, not significant		None observed
Topography of adjacent buffer areas (opportunities to improve water quality through sediment trapping/infiltration)		Very Steep >65°	Steep >45° to 65°	Moderate >25° to 45°	Gradual >10° to 25°	Flat 0 to 10°
Potential for or evidence of pollution input (agricultural fields, lawns, golf courses) upslope of wetland		Present, potential problem		Present, not significant		None observed
<b>Element Subtotal</b>						
<b>Total Score</b> (sum Element Subtotal row above) _____						
<b>Total Score / Number of Elements</b> _____/10						
<b>Ability to Protect and Improve Water Quality</b> <b>Wetland Functional Score</b> _____						

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Site ID: \_\_\_\_\_

<b>Surface Water Storage</b>		<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
<i>Element</i>							
Determine NYSDEC water quality classification of associated waterbody or watercourse			Class D	Class C	Class C(t)	Class B	Class A or AA
Determine wetland control length (WCL) restrictiveness* <i>*Described in Site Sketch</i>			Not restrictive; very little flood water storage		Moderate capacity for flood water storage		Very restrictive; wetland provides effective flood water storage
Dominant soil type			Sandy soils		Organic soils		Fine grained mineral soils
Wetland Area	_____ acres						
Individual wetland watershed area	_____ acres						
<b>Element Subtotal</b>							
<b>Total Score</b> (sum Element Subtotal row above)							
<b>Total Score / Number of Elements</b>							
<b>Surface Water Storage</b> <b>Wetland Functional Score</b>							

<b>Ground Water Storage</b>		<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
<i>Element</i>							
Existing public or private water supply wells			No well(s) located within 1 mile downstream of wetland		Well(s) located within >0.5 and <1 miles downstream of wetland		Well(s) located <0.5 miles downstream of wetland
Determine NYSDEC water quality classification of associated waterbody or watercourse			Class D	Class C	Class C(t)	Class B	Class A or AA
Determine wetland control length (WCL) restrictiveness* <i>*Described in Site Sketch</i>			Not restrictive; very little flood water storage		Moderate capacity for flood water storage		very restrictive; wetland provides effective flood water storage
Dominant soil type			Fine grained mineral soils		Organic soils		Sandy soils
Wetland Area	_____ acres						
Individual wetland watershed area	_____ acres						
<b>Element Subtotal</b>							
<b>Total Score</b> (sum Element Subtotal row above)							
<b>Total Score / Number of Elements</b>							
<b>Ground Water Infiltration and Storage</b> <b>Wetland Function Score</b>							

Note: Surface water and groundwater storage were separated into two categories to calculate score.

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Wetland Functional Assessment

Site ID: \_\_\_\_\_

<b>Erosion Control</b>						
<i>Element</i>	<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
Wetland/waterbody interface morphology	No associated waterbody	Distinct shoreline or bank showing severe erosion		Distinct shoreline or bank showing minor erosion	No distinct shoreline or bank and/or no erosion	
Water contact with toe of bank causing undercutting	No shoreline bank	Frequent, severe undercutting		Moderate	Occasional	Infrequent, no undercutting
Water level fluctuation		Drastic, causes erosion		Moderate fluctuation causes erosion	No fluctuation	
Width of wetland bordering waterbody	No associated waterbody	<3 feet		>3 to <10 feet		>10 feet
Vegetation density		Low: <70 % cover		Moderate: >70 to <90% cover		High: >90% cover
Dominant plant cover		Vegetation absent		Non-persistent vegetation	Approx. equal proportions	Persistent vegetation
<b>Element Subtotal</b>						
<b>Total Score</b> (sum Element Subtotal row above) _____						
<b>Total Score / Number of Elements</b> _____ /6						
<b>Erosion Control</b> <b>Wetland Function Score</b> _____						

<b>Fish Habitat of Associated Lake, Pond, or Reservoir (only complete this section if wetland is associated with lake, pond, or reservoir)</b>						
<i>Element</i>	<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
Determine NYSDEC water quality classification of associated waterbody or watercourse		Class D	Class C	Class C(t)	Class B	Class A or AA
Presence of fish species of concern		No known species of concern	One or more species of Special Concern	One Threatened species	Two or more Threatened species	One or more Endangered species
Barrier(s) to fish passage (such as dams, beaver dams, impassable logjams) along the shoreline associated with the wetland		Artificial barriers present without provisions for fish passage		Natural barriers present that limit fish passage	No barriers present, or if present equipped with fish ladders	
Total area of open water (including areas of submerged, rooted, or emergent vegetation)		<10 ac		>10 to <100 ac		>100 ac
Abundance of cover objects (submerged logs or rocks)		<30% of area visible from shore		>30 and <70% of area visible from shore		>70% of area visible from shore
Percent of open water supporting rooted submerged or emergent vegetation		<15 or >50%		>15 to <50%		
<b>Element Subtotal</b>						
<b>Total Score</b> (sum Element Subtotal row above) _____						
<b>Total Score / Number of Elements</b> _____ /6						
<b>Fish Habitat of Associated Lake, Pond, or Reservoir</b> <b>Wetland Function Score</b> _____						

**Wetland Assessment Score Sheet**  
**Bronx River Watershed, Westchester County, New York**

Wetland Functional Assessment (continued)

Site ID: \_\_\_\_\_

<b>Wildlife Habitat</b>						
<i>Element</i>	<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
Determine NYSDEC water quality classification of associated waterbody or watercourse		Class D	Class C	Class C(t)	Class B	Class A or AA
Presence of wildlife species of concern		No known species of concern	One or more species of Special Concern	One Threatened species	Two or more Threatened species	One or more Endangered species
Disturbance of wildlife habitat (i.e., filling, burning, tilling, excavation, mowing)		Highly disturbed		Moderate	No disturbance	
Wetland site size in relation to the site's landscape context		Low value		Intermediate value	High value	
Number of vegetation strata in wetland (i.e., canopy, sapling/shrub, herbaceous, shallow surface water, open water; min. 5% cover)		1	2	3	4	5
Presence of upland islands		Absent		One	Two or more	
Degree of cover type interspersions		Low or no (1 cover type)		Intermediate condition	High	
Percent open water		<10% or >90% open water		Intermediate condition	Approximately 50% open water	
Condition of overland wildlife travel corridors 50 to 100 feet wide to adjacent desirable habitat	No corridor present	Access blocked by roads or development		Access partially blocked by roads or development	Free access along vegetated corridor	
Undesirable species Specify: _____		Site dominated by species with limited habitat value		Intermediate condition	None present	
Presence of wildlife attractors Specify: _____		Absent or sparse		Moderate	Abundant	
<b>Element Subtotal</b>						
<b>Total Score</b> (sum Element Subtotal row above) _____						
<b>Total Score / Number of Elements</b> _____/11						
<b>Wildlife Habitat</b> <b>Wetland Function Score</b> _____						

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**Wetland Functional Assessment**

Site ID: \_\_\_\_\_

<b>Recreation</b>						
<i>Element</i>	<i>NA</i>	<i>0.1</i>	<i>0.25</i>	<i>0.5</i>	<i>0.75</i>	<i>1.0</i>
Determine NYSDEC water quality classification of associated waterbody or watercourse		Class D	Class C	Class C(t)	Class B	Class A or AA
Fishing within associated waterbody	No associated waterbody	No sign of fishing apparent		No stocking, evidence of fishing apparent		Stocked fishery, evidence of fishing apparent
Opportunities for wildlife observation <i>(utilize wildlife habitat function score)</i>		0.00 – 0.20	0.21 – 0.40	0.41 – 0.60	0.61 – 0.80	0.81 – 1.0
Presence of trash/debris/litter		Substantial		Moderate		None
Site accessibility & safety concerns (existing trails, adequate parking, rough terrain, etc.)		Difficult to access and/or unsafe		Intermediate condition		Easily accessibly and safe
Aesthetics/general appearance of wetland		Unattractive		Neither		Attractive
Wetland is hydrologically connected to and accessible from public waterbody used for water-based recreational activities		Not connected, not accessible		Connected, not accessible		Connected, easily accessible
<b>Element Subtotal</b>						
<b>Total Score</b> (sum Element Subtotal row above) _____						
<b>Total Score / Number of Elements</b> _____ / 7						
<b>Recreation</b> <b>Wetland Function Score</b> _____						