



Location: Tivoli South Bay, Bard College Fish Station, Annandale on Hudson, Dutchess County, NY **Area**: Embayment, between mouth of Saw Kill and Blithewood Manor. Forested, used for boating, picnics, fishing, jogging.

Surrounding Land Use: 90% Forested, 10% Urban/Residential

Sampling Site: Mud flats, muddy and rocky, covered in vegetation, large rocks

Shoreline: 50% Muddy, 50% Rocky

River Bottom: muddy and rocky

Water: 12 cm, calm

Plants in water: no plants in water area

ITEM	Time	Reading		Comments			
Physical							
Air Temperature	10:51 AM	56 ° F	13.3 ° C				
	11:10 AM	55 ° F	12.8 ° C				
	12:15 PM	55 ° F	12.8 ° C				
Wind Speed:	11:08 AM	Beaufort 1	North				
Weather today	10AM Over (100%). Rained 0.68 inches						
Weather past 3 days:	Rain cold						
<i>Tides-</i> tide stick	Time	Rising, Falling, Unchanged	Water Height (cm)	Rate of Tidal Change (cm/min)			
	NR						
Current-	Time	cm/second, Knots	North/South	Ebb/Flood/Still			
	10:30 AM	44.6 cm/s, .87 knots	South	Ebb			
	11:00 AM	48.3 cm/s, .94 knots	South	Ebb			
Water Temperature-	NA						
Turbidity- long sight tube	12:17 PM	114 cm, 60.4 cm, 117.8 cm, Avg: 97.4 cm					
		Chemical					
Salinity-	NA						
DO – drop count	Time	Тетр	ppm DO	% saturation			
	10:36 AM	10.9	11	100			
	11:15 AM	11.2	10	90			

	12:08 PM	11.7	9	83	
	12:08 PM	12	12	110	
pH – color match kit	10:36 AM	7.4, 7.4, 7.5	12	110	
	10:30 AM 11:15 AM	7.1, 7.1, 7.1			
	12:28 PM	7.0, 7.0, 7.0			
	12.20 1 1	<i>Biological</i>			
Fish	Number	Name	Length of longest	Notes	
				110105	
Kicknet	1	American eel (elver)	25 cm		
Seine	I	Brown bullhead	43 cm		
Seine	6	Goldfish	10 cm		
Seine	11	Banded Killifish	13 cm		
Seine	2	Smallmouth bass	juvenile not measured		
Fish Totals	TOTAL: 21	Diversity: 5			
Macroinvertebrates	Number	Name	Length of longest		
Kicknet	1	Dobsonfly Larva	3 cm		
	2	Riffle Beetle			
	1	Caddisfly Larva			
	1	Snails			
	1	Dragonfly Nymph			
	2	Crayfish			
	1	Sowbug			
Macroinvertebrate Totals	TOTAL: 3	Diversity: 1			
Sediment Core	Time	Oxidized Top	Grain Size	Other Features	
2 ft water depth	9:00AM	Yes	Abundant: clay, mud	Rare: leaves,	
			Rare: Sand, gravel,	oyster shells, brick	
			pebbles		
Boats	Time	Name/Color	North/South	Loaded/Light	
Recreational	11:30 AM	Rec. Boat, white	South	Light	
Observations	Dead Carp fish, leaves, tree in water, acorns, cormorants, gray squirrel, bald eagle,				
yellow jackets, water chestnut seeds, eagle flew overhead, heard blue jays					