

Day in the Life of the Hudson River 10/05/2023

**Tivoli South Bay,
RIVER MILE: 98**

Salt Front: ~ 52

Bard College-Eli Dueker

17 college students & 2 adults

Latitude 42.01811°N & Longitude -73.91701°W

Location: Tivoli Bay South, NY, East side of Hudson River.

Surrounding Land Use: 90% Forested, 10% Residential

Sampling Site: Around the Bard Field Station between the Sawkill Creek and Blithewood Manor

Shoreline: Muddy & Rocky, covered in vegetation

Water: NR

River Bottom: Muddy & Rocky

Plants in the water: 50% Water Chestnut

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>			<i>Comments</i>
Physical					
<i>Air Temperature-NR</i>		° C		° F	
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
<i>Weather today</i>	9:15 AM	<25% Cloud Cover		No Rain	
<i>Weather past 3 days:</i>	Beautiful and Clear				
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
<i>Water Temperature-</i>	9:15 AM	16.8°C			
<i>Turbidity-Turbidimeter (NTU)</i>	9:15 AM	1.87 NTU			
Chemical					
<i>Salinity- NR</i>					
<i>DO – Meter/Probe</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	
	9:15 AM	16.8°C	10.68 ppm	109%	
<i>pH – Meter/Probe</i>	9:15 AM	8.75			
<i>Enterococcus</i>		39.5 mpn/100 ml			
<i>Coli</i>		280 mpn/100 ml			
<i>E.Coli</i>		10 mpn/100 ml			
Biological- Did not fish					
<i>Fish</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	<i>Notes</i>
<i>Fish Totals</i>	TOTAL:	Diversity:			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	
<i>Macroinvertebrate Totals</i>	TOTAL:	Diversity:			
<i>Sediment Core -NR</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>
					<i>Other Features</i>

Boats-NR

Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded