

**Day in the Life of the Hudson River 10/13/22**  
**The Baylander**  
**RIVER MILE: 10**  
*Salt Front: ~ RM 76*  
**The Baylander Scott Koen & PS 36 (5<sup>th</sup> graders)- Shari Fine**  
*18 students & 4 adults*  
**Latitude 40.819303 N & Longitude – 73.961445 W**



**Location:** Baylander  
**Area:** Pier with lots of water, birds, and houses in the distance  
**Surrounding Land Use:** 75% Urban/Residential; 25% other  
**Sampling Site:** Pier, pipe entering the water  
**Shoreline:** 100% Rocky  
**Water:** Choppy  
**Plants in the water:** no plants in the water  
**River Bottom:** muddy, sandy, rocky, weedy

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature-</i>	9:35 AM 9:46 AM	21.7°C 23.2°C	71°F 73.7°F	
<i>Wind Speed:</i>	9:35 AM	<i>Anemometer</i> 2.7 knots	<i>Beaufort</i> 1	<i>Direction</i>
<i>Weather today</i>	9:43 AM	>75% cloud cover	No Rain	
<i>Weather the past 3 days:</i>	Sunny, partly cloudy, cool			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Still</i>
<i>Water Temperature-</i>	9:25 AM 9:52 AM 10:04 AM	19.5°C 20°C 19°C	67°F 68°F 66°F	
<i>Turbidity- Secchi Disk (cm)</i>	9:30 AM 9:52 AM 10:13 AM	91.44 cm 91.44 cm 76.2 cm		

<i>Chemical</i>					
<i>Salinity-Hydrometer</i>	9:25 AM 9:52 AM 10:04 AM	16 ppt 17 ppt 18 ppt			
<i>Standardized Salinity – Refractometer</i>	9:20 AM	16,000 ppm			
<i>DO –</i>	<i>Time</i> 10:02 AM	<i>Temp</i> 19°C	<i>ppm DO</i> 8 ppm	<i>% saturation</i> 90%	
<i>pH – Color Match Kit</i>	9:37 AM 9:40 AM	7 7.5			
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
<i>Biological</i>					
<i>Fish – Traps</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<b>Fish Totals</b>	<b>TOTAL:0</b>	<b>Diversity: 0</b>			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	1	Blue Crab			
	2	Mud Crab			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 3</b>	<b>Diversity:2</b>			*oysters, sea grapes and mussels attached to oyster shells
<i>Sediment Core - NA</i>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<i>Boats-NR</i>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>