

**Day in the Life of the Hudson River 10/13/22**

**Nyack Memorial Park, Nyack, NY**

**RIVER MILE: 28**

*Salt Front: ~RM75*

**Liberty Elementary School- George Mrsich**

**Ashley Curtis, and OSA**

**Rockland County Soil & Water District – Nicole Laible and Brianna Rosamilia**

*60 students & 15 adults*

**Latitude 41.08742 N & Longitude – 73.91576 W**



**Location:** Nyack Memorial Park, Nyack

**Area:** Drainage pipe forming stream that leads into Hudson River

**Surrounding Land Use:** Forested, beach, park

**Sampling Site:** Pier, forested, beach, altered banks, grassy, covered in vegetation, RipRap, pipe entering the water

**Shoreline:** 30% Sandy; 70% Rocky

**Water:** Choppy

**River Bottom:** muddy, sandy, rocky

\*NR = Not read/recorded

<b>ITEM</b>	<b>Time</b>	<b>Reading</b>		<b>Comments</b>	
<b>Physical</b>					
<b>Air Temperature-</b>	9:45 AM 10:30 AM 10:45 AM 11:15 AM	21°C 20.5°C 20.5 °C 20°c	70°F 69°F 69°F 68°F		
<b>Wind Speed: NR</b>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
<b>Weather today</b>	9:30 AM	Overcast	No Rain		
<b>Weather the past 3 days:</b>	Seasonal sunny weather past 3 days				
<b>Tides- measured down from pier</b>	<b>Time</b>	<b>Rising, Falling, Unchanged</b>	<b>Water Height (cm)</b>		
	9:45 AM 10:45 AM 11:15 AM	Rising Rising Rising	269 cm 243 cm 240 cm		
<b>Current-</b>	<b>Time</b>	<b>Cm/sec</b>	<b>Knots</b>	<b>North/South</b>	<b>Ebb/Flood/Still</b>
	9:45 AM 10:30 AM 10:45 AM	12.6 NR 14.3	NR	North North North	Flood Flood Flood

	11:15 AM	18.7		North	Flood
<b>Water Temperature-</b>	9:45 AM 10:30 AM 10:45 AM 11:15 AM	17.8°C 18.3°C 18.3°C 18.3°C		64°F 65°F 65°F 65°F	
<b>Turbidity- Long Sight Tube (120 cm)</b>	10:30 AM 10:45 AM 11:15 AM	43,35,40,47 45,46,52 35,45,57,39		Average: 41.25 cm 47.6 cm 44 cm	
<b>Chemical</b>					
<b>Salinity- hydrometer</b>	9:45 AM 10:30 AM 10:45 AM 11:15 AM	12 ppt 14 ppt 12 ppt 11 ppt		12:15 PM Salinity read with HR quantabs 8.2	3854 ppm Cl- 6962 ppm Total Salinity
<b>Standardized Salinity – HR Quantabs</b>	11:50 AM	Total Salinity 8,536 ppm		HR quantab 8.6	
<b>DO – Hach Kit</b>	Time 12:15 PM	Temp 17.2°C		ppm DO 8 ppm	% saturation 82%
<b>pH – Sticks</b>	9:45 AM 10:30 AM 10:45 AM 11:15 AM	7.2 7.2 7.2 7.5		Hach Kit	8
<b>Nitrates- NR</b>					
<b>Phosphates- NR</b>					
<b>Alkalinity- NR</b>					
<b>Biological</b>					
<b>Fish – Seine</b>	<b>Number</b>	<b>Name</b>		<b>Length of longest</b>	<b>Length of smallest</b>
8:00-9:15 AM	15	Atlantic Silverside			
<b>Fish Totals</b>	<b>TOTAL:15</b>	<b>Diversity: 1</b>		*@ 8:30 AM an angler provided	1 Snapping Turtle 30.4 cm 2 Channel Catfish (36 cm & 25 cm)
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>		<b>Length of longest</b>	<b>Length of smallest</b>
	5 3	Blue Crab Ctenophore sp.		(1M, 1F)	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 8</b>	<b>Diversity: 2</b>		*rest of blue crabs too small to ID sex	
<b>Sediment Core - NR</b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<b>Boats-NR</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>