

**Day in the Life of the Hudson River 10/22/19**

**MEMORIAL PARK, NYACK**

**RIVER MILE: 28**

*Salt Front: ~ RM 53*

**Liberty Elementary School- George Mirsh (AM GROUP)**

**75 students 5<sup>th</sup> grade and a total of 12 adults with support from the following groups:**

**Outdoor Science Alliance with the help of Ashley Curtis**

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

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

**Location:** Nyack Memorial Park, Nyack, Rockland County, NY

**Area:** Open and grassy, parking lot, picnics, fishing

**Surrounding Land Use:** 100% parkland

**Sampling Site:** beach, banks altered, riprap on shoreline, bulkhead

**River Bottom:** Sandy, muddy

**Plants in water:** no plants in water area

This site hosted two elementary schools. This is the AM group

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>	<i>Comments</i>	
<b>Physical</b>				
<i>Air Temperature</i>	9:43 AM 10:11 AM 10:45 AM 11:09 AM	54 ° F NR 56° F, 60° F, 56° F, 57°F 58° F, 57 ° F	<b>Averages</b> 54 °F NR 57°F 57.5 °F	
<i>Wind Speed:</i>	NR			
<i>Weather today</i>	NR			
<i>Weather the past 3 days:</i>	NR			
<i>Tides- dock to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	9:43 AM 10:11 AM 10:45 AM 11:09 AM	Falling Falling Falling Falling	332.75 cm 330.2 cm 309.88 cm, 297.18 cm 314.96 cm, 312.42 cm	
<i>Current-</i>	<i>Time</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>	
	9:43 AM 10:11 AM 10:45 AM 11:09 AM	South South South South	Ebb Ebb Ebb Ebb	
<i>Water Temperature</i>	9:43 AM 10:11 AM 10:45 AM 11:09 AM	60 ° F 60 ° F 60 ° F, 54 ° F 60 ° F, 59 ° F	<b>Averages</b> - 60 °F 60 °F 57° F 59.5°F	
<i>Turbidity-</i>	9:43 AM 10:11 AM 10:45 AM 11:09 AM	44 cm 36 cm 45 cm 54.5 cm		
<b>Chemical</b>				
<i>Salinity- Hydrometer</i>	9:43 AM 10:11 AM 10:45 AM 11:09 AM	<6 <6 <6 <6	*Unable to get a more accurate reading with this type of hydrometer	
<i>DO – drop count kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:43 AM 10:11 AM 10:45 AM		NR 7 6	

	11:09 AM		8	
<b>pH –</b>	9:43 AM	5.75, 5.5, 6.5		<b>Avg: 5.81</b>
	10:11 AM	7, 5.75, 5.75, 5, 5		<b>Avg: 5.70</b>
	10:45 AM	6, 6.5, 5.75, 5.5, 6, 5, 4.5, 6.25		<b>Avg: 5.69</b>
	11:09 AM	5.75		
<b>Biological</b>				
<b>Fish</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
Seine	4	White Perch		
Caught by Nyack High	15	Striped Bass		
School and shared with	4	Mummichogs		
Liberty ES and Upper	25	Atlantic Silversides		
Nyack ES	6	Spottail Shiners		
<b>Fish Totals</b>	<b>TOTAL: 54</b>	<b>Diversity: 5</b>		
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
	8	Blue Crabs		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 8</b>	<b>Diversity: 1</b>		