

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

**Fort Washington Park, Manhattan, NYC**

**RIVER MILE: 11.5**

*Salt Front: ~ 52*

**Marymount School of New York-Krysta Camp**

**56 students, 7<sup>th</sup> grade, 7 adults**

**Latitude 40.84574° N & Longitude -73.94629°W**

**Location:** Fort Washington Park just South of the George Washington Bridge, Manhattan, NYC

**Surrounding Land Use:** 90% Park, 5% Forested, 5% Beach

**Sampling Site:** Urban Park with grassy areas with many trees, beach with altered banks, area covered in vegetation, lots of rip raps on shoreline, concrete bulkhead

**Shoreline:** NR

**Water:** Calm

**River Bottom:** Muddy, Sandy, Weedy

**Plants in the water:** No Plants in the water

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<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>	10:00 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Sunny, similar to today			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:00 AM	Rising	21.29 cm	
	10:20 AM	Rising	31.5 cm	
	10:45 AM	Rising	40 cm	
	11:00 AM	Rising	55 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	10:14 AM	52.8	1.028	
	10:33 AM	19.6	0.38	
	10:45 AM	36.57	0.71	
		28.29	0.55	
<i>Water Temperature-</i>	10:37 AM	20°C		
	11:15 AM	20°C		
<i>Turbidity- NR</i>				
<b>Chemical</b>				
<i>Student Salinity- Meter/Probe</i>	10:17 AM	9,460 ppm	9.5 ppt	
	10:45 AM	8,737 ppm	8.7 ppt	
	11:05 AM	8,687 ppm	8.7 ppt	
	11:05 AM	9,080 ppm	9.1 ppt	
<i>DO – Lamotte Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:37 AM	20°C	8 ppm	90%
	11:15 AM	20°C	8.5 ppm	92.5%
<i>pH – Color Match Test Kit</i>	10:00 AM	7.7		
	10:23 AM	7.8		
	10:47 AM	8		
	11:10 AM	8.3		
<i>Nitrates-</i>	10:15 AM	0.6 mg/L		
<i>Phosphates-</i>	10:15 AM	2 mg/L		
<b>Biological</b>				

<i>Fish- Seine (3 Hauls)</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
9:15 AM-11:15 AM	44 1	Atlantic Silverside Striped Bass				
<b>Fish Totals</b>	<b>TOTAL: 45</b>	<b>Diversity: 2</b>				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
	1	Eastern Oyster				
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 1</b>	<b>Diversity: 1</b>				
<i>Sediment Core -NR</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H<sub>2</sub>S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

<b>Boats</b>					
<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Type</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/ Loaded</b>
Commercial	11:45	Trash Barge	Light Blue	Southbound	Loaded
Recreational	10:50	Fishing Boat	White	Northbound	Light
Recreational	11:05	Sailboat	Navy & White	Northbound	Light