

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

**Randall's Island, NYC**

**HARLEM RIVER MILE: 1**

*Salt Front ~ RM52*

**Randall's Island Park Alliance- John Butler & Chris Girgenti**

**Central Park East 2-Clarissa Lynn**

**22 students, 8<sup>th</sup> grade, 9 adults**

**Latitude 40.786015°N & Longitude -73.934763°W**



**Location:** Randall's Island waterfront, NYC

**Surrounding Land Use:** 45% Urban/Residential, 5% Industrial/Commercial, 25% Beach, 25% Open Park

**Sampling Site:** Beach, Altered Banks, Pipe entering the water, grassy, covered in vegetation, Rip Rap

**Shoreline:** 45% Sandy, 10% Muddy & 45% Rocky

**Water:** Calm

**River Bottom:** Muddy, Sandy & Rocky

**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>	
<i>Physical</i>					
<i>Air Temperature</i>	10:01 AM	21.17°C	70.1°F		
	10:42 AM	23.83°C	74.9°F		
	11:29 AM	23.83°C	74.9°F		
<i>Wind Speed:</i>	10:02 AM	<i>Anemometer</i> 1.5 mph	<i>Beaufort</i> 0	<i>Direction</i> South	
<i>Weather today</i>	10:33 AM	<25% Cloud Cover	No Rain		
<i>Weather the past 3 days:</i>	Clear and warm for early October				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:15 AM	-		25 cm	
	9:58 AM	Rising		29 cm	
	10:30 AM	Rising		36 cm	
	11:05 AM	Rising		50 cm	
	11:35 AM	Rising		53.5 cm	
	11:50 AM	Rising		59 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	10:25 AM	19.13	0.37		Flood
	11:15 AM	32.48	0.63		Flood

	11:20 AM 11:49 AM	33.83 64.72	0.66 1.26		Flood Flood
<b>Water Temperature-</b>	9:43 AM 10:20 AM 11:00 AM	19.6°C 20.3°C 20.5°C		67.3°F 68.5°F 68.9°F	
<b>Turbidity- Long Sight Tube (120 cm)</b>	10:20 AM 11:00 AM	36.4 cm 24.2 cm			

**Chemical**

<b>Student Salinity- Meter/Probe</b>	9:43 AM 10:20 AM 10:55 AM	21,700 ppm 21,700 ppm 22,200 ppm 22,400 ppm	21.7 ppt 21.7 ppt 22.2 ppt 22.4 ppt	
<b>DO – Meter/Probe</b>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:43 AM 10:20 AM 11:00 AM	19.6°C 20°C 20.5°C	8.47 ppm 7.9 ppm 9.35 ppm	95% 90% 100%
<b>pH – Color Match Test Kit</b>	9:43 AM 10:20 AM 11:00 AM	7 7 7		
<i>Meter/Probe</i>	9:43 AM 10:20 AM 11:00 AM	7.4 7.19 7		

**Biological**

<b>Fish- Seine (3 Hauls)</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Notes</b>		
9:47 AM-11:05 AM	104 9 1 1	Atlantic Silverside Menhaden Bluefish Tautog (Blackfish)	8 cm 9.5 cm 11 cm 14 cm			
<b>Fish Totals</b>	<b>TOTAL: 115</b>	<b>Diversity: 4</b>				
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>			
	2	Blue Crab	12 cm			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 2</b>	<b>Diversity: 1</b>				
<b>Sediment Core</b>	<b>Time</b>	<b>Oxid Top</b>	<b>H<sub>2</sub>S Smell</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
29 cm	9:10 AM	No	Yes	No	Abundant: Sand Common: Clay & Mud	

**Boats**

<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/ Loaded</b>
Commercial	11:15	Circle Line	White	Northbound	Loaded
Recreational	9:45	NYPD	Silver	Northbound	Light
Recreational	9:50	NYPD	Silver	Southbound	Light
Recreational	10:45	NYPD	Silver	Southbound	Light