

**Day in the Life of the Hudson River 10/05/2023**  
**Pebbles Beach, Brooklyn Bridge Park**  
**EAST RIVER MILE: 2.4**  
*Salt Front: ~ RM 52*  
**Packer Collegiate Institute-Jessica Genter**  
**73 students, 7<sup>th</sup> grade, 9 adults**  
**Latitude 40.7044132°N & Longitude -73.9905596°W**

**Location:** Pebbles Beach, Brooklyn Bridge Park

**Surrounding Land Use:** 70% Urban/Residential, 20% Industrial/Commercial, 10% Beach

**Sampling Site:** NR

**Shoreline:** Beach, Riprap

**Water:** NR

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

**Plants in the water:** NR

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	9:40 AM	24.3°C	75.7°F		
	10:36 AM	24.8°C	76.6°F		
	11:21 AM	27.9°C	82.2°F		
	12:46 PM	31.4°C	88.5°F		
	1:33 PM	28.1°C	82.6°F		
	2:09 PM	28.4°C	83.1°F		
<i>Wind Speed:</i>	9:44 AM	<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
	10:40 AM	1 m/s	1	North	
	11:22 AM	1.6 m/s	2	Northeast	
	12:49 PM	1.2 m/s	2	North	
	1:28 PM	1.6 m/s	2	Northeast	
	2:12 PM	1.4 m/s	3	Northeast	
		1.6 m/s	2	Southwest	
<i>Weather today</i>	9:44 AM-2:17 PM	<25% Cloud Cover	Nn Rain		
<i>Weather the past 3 days:</i>	A little rain, warm				
<i>Tides- Dock to water's surface</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:26 AM	-		318 cm	
	9:45 AM	Rising		316 cm	
	10:22 AM	Rising		307 cm	
	10:43 AM	Rising		281 cm	
	11:04 AM	Rising		277 cm	
	11:20 AM	Falling		284 cm	
	12:27 PM	Rising		262 cm	
	12:48 PM	Falling		263 cm	
	1:10 PM	Rising		259 cm	
	1:55 PM	Rising		252 cm	
	2:13 PM	Falling		264 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	9:38 AM	233.3*			Ebb
	10:39 AM	15.9			Ebb
	11:14 AM	63.63			Flood
	11:18 AM	50			Flood
	12:38 PM	9.1			Flood
	12:43 PM	16.3			Flood

	1:18 PM 1:22 PM 1:26 PM 1:34 PM 1:39 PM 2:09 PM	15.9 43.75 100 89.3 77.7 100			Flood Ebb Flood - Flood Flood
<b>Water Temperature-</b>	11:08 AM 12:26 PM 12:46 PM 1:04 PM 1:23 PM 1:48 PM 2:04 PM	20°C 20°C 22°C 22°C 20°C 22°C 20°C		68°F 68°F 71.6°F 71.6°F 68°F 71.6°F 68°F	
<b>Turbidity- Long Sight Tube (120 cm)</b>	9:40 AM 10:36 AM 11:25 AM 12:49 PM 1:30 PM 2:07 PM	62 cm 52.5 cm 54 cm 50 cm 65 cm 44.5 cm			
<b>Chemical</b>					
<b>Standardized Salinity- Refractometer</b>	NR	21,000 ppm		21 ppt	
<b>Student Salinity- Hydrometer Refractometer</b>	9:32 AM 10:35 AM 11:24 AM 12:48 PM 1:29 PM 2:07 PM  9:33 AM 10:36 AM 11:24 AM 12:48 PM 1:29 PM 2:07 PM	21,000 ppm 21,500 ppm 19,000 ppm 22,000 ppm 21,000 ppm 22,000 ppm  24,000 ppm 24,000 ppm 22,000 ppm 25,000 ppm 22,000 ppm 22,000 ppm		21 ppt 21.5 ppt 19 ppt 22 ppt 21 ppt 22 ppt  24 ppt 24 ppt 22 ppt 25 ppt 22 ppt 22 ppt	
<b>DO – Hach Drop Count Kit</b>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	9:25 AM 10:00 AM 10:30 AM 10:50 AM 11:00 AM 11:25 AM 12:40 PM 12:50 PM 1:15 PM 1:40 PM 2:00 PM 2:15 PM			18 ppm* 9 ppm 8 ppm 7 ppm 7.5 ppm 7 ppm 7.5 ppm 7 ppm 8 ppm 7 ppm 8.5 ppm 4 ppm	*expected error
<b>pH – Color Match Kit</b>	9:33 AM 10:00 AM 10:28 AM 11:09 AM 11:25 AM 12:33 PM 12:55 PM 1:12 PM	8.3 8.5 7.5 7.5 8 8 8.5 8			

	1:29 PM	8				
	1:54 PM	8				
	2:09 PM	8				
<b><i>Fish- Seine (21 Hauls)</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	<b><i>Notes</i></b>		
9:00 AM-2:00 PM	200	Atlantic Silverside	11 cm			
<b>Fish Totals</b>	<b>TOTAL: 200</b>	<b>Diversity: 1</b>				
<b><i>Macroinvertebrates</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>			
	47	Moon Jellies				
	13	Ctenophore spp.				
	1	Blue Crab				
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 61</b>	<b>Diversity: 3</b>				
<b><i>Sediment Core -NR</i></b>	<b><i>Time</i></b>	<b><i>Oxid Top</i></b>	<b><i>H<sub>2</sub>S Smell</i></b>	<b><i>Oil</i></b>	<b><i>Grain Size</i></b>	<b><i>Other Features</i></b>

**Boats-NR**

<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/ Loaded</b>