

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

**Swindler Cove, NYC**

**Harlem RIVER MILE: 13**

*Salt Front: ~ RM76*

**HREP DEC Chris Bowser DEC & New York Restoration Project – Max Tetrault, NYRP**

**Dos Puentes Elementary – Teacher team**

*72 students & 12 adults*

**Latitude 40.85784°N & Longitude – 73.92201°W**



**Location:** Swindler Cove, NYC

**Area:** There is a pier, beach, floating boathouse with a dock. Area used for boating, rowing, biking, walking, school groups- forest and grassy area

**Surrounding Land Uses:** Urban Park (immediate forest, garden, school, neighborhood)

**Sampling Site:** Sandy, muddy beach area, covered with vegetation, riprap banks

**Shoreline:** 80% Rocky, 20% Muddy

**Plants in area:** grass, sycamore trees

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature-</i>	12:00 PM	20.85°C		69.5°F	
	1:00 PM	21.8°C		71.2°F	
<i>Wind Speed: NR</i>		<i>Anemometer</i>		<i>Beaufort</i>	<i>Direction</i>
<i>Weather today</i>	12:30 PM	>75% cloud cover		Rain starting at 1 pm	
<i>Weather the past 3 days:</i>	Warm and clear				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	10:00 AM-11:00 AM	Rising		NR	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	11:00 AM	254	4.94	NR	NR
<i>Water Temperature-</i>	12:15 PM	16.68°C		62°F	
	12:40 PM	18.3°C		65°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:38 AM	52.6 cm			
	11:30 AM	51.7 cm			
	2:00 PM	35.55 cm			
<i>Chemical</i>					
<i>Salinity-Hydrometer</i>	12:15 PM	16 ppt		Average 18 ppt	

		18 ppt 20 ppt			
<b>Standardized Salinity</b> – Refractometer	11:45 AM	15,000 ppm			
<b>DO</b> – Hach Drop Count kit	<i>Time</i> 10:30 AM 12:15 PM 12:40 PM	<i>Temp</i> NR 16.68°C 18.3°C	<i>ppm DO</i> 5 ppm 8 ppm 7 ppm	<i>% saturation</i> NR 75% 70%	
<b>pH</b> – Meter	12:15 PM 12:40 PM	6.25 6.32			
<b>Nitrates</b> - NR					
<b>Phosphates</b> - NR					
<b>Alkalinity</b> - NR					
<b>Biological-</b>					
<b>Fish – Seine</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Length of smallest</b>	
10:45 AM-11:00 AM	21 5 3	Mummichog Atlantic Silverside Atlantic Menhaden	6 cm 6 cm 4 cm		
<b>Fish Totals</b>	<b>TOTAL: 29</b>	<b>Diversity: 3</b>		*One medium sized snapping turtle caught by hand, carapace length approx. 25 cm	
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Length of smallest</b>	
	2	Blue Crab			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 2</b>	<b>Diversity: 1</b>			
<b>Sediment Core - NA</b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
NR					
<b>Boats-NR</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial	NR				
Recreational	NR				