

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

Ferry Point Park, NY

East RIVER MILE: 13.5

Salt Front: ~ 76

Dwight School– Shalini Bhavnani

54 students & 7 adults

DEC HREP – Sarah Mount and support staff

Latitude 40.804873 N & Longitude – 73.832189 W

Location: Ferry Point Park, Bronx, NY

Area: Ferry Point Park along the East River. Below the Bronx-Whitestone Bridge across the East River. Mostly used for boating and fishing. Pier with grassy area and parking lot. Large park area used for picnics and sports with spartina covered marsh along the water and forested beyond.

Sampling Site: Beach/park

Surrounding Land Uses: Beach/Park

Shoreline: Sandy beach, tidal marsh area covered with dense spartina

River Bottom: Sandy, Rocky

Water: 30 cm

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>	11:33 AM	23°C	73.4°F		
<i>Wind Speed:</i>	9:43 AM 10:27 AM 11:35 AM	<i>Anemometer</i> 0.8 m/s 2.8 m/s 2.6 m/s	<i>Beaufort</i> NR	<i>Direction</i> NR	
<i>Weather today</i>	11:35 AM	>75% cloud cover	No Rain		
<i>Weather the past 3 days:</i>	Cloudy, very windy, no rain, temperatures ranging from 55-65°F				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>		
	9:30 AM 10:18 AM 10:32 AM 12:25 PM	Rising Rising Rising Rising	15 cm 24 cm 29 cm 95 cm		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	9:54 AM 10:41 AM 11:43 AM	12.7 31.9 27.3	NR	NR	NR Flood NR
<i>Water Temperature-</i>	11:38 AM	19°C all morning		66.2°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:07 AM 10:50 AM 11:51 AM	11.9 cm 11.2 cm 36.1 cm			
<i>Chemical</i>					
<i>Salinity-Refractometer</i>	10:34 AM 12:02 PM 12:27 PM	22 ppt 22 ppt 22 ppt			
<i>Standardized Salinity – Refractometer</i>	12:40 PM	25.5 ppt			
<i>DO – Hach Drop Count Kit</i>	<i>Time</i> 10:49 AM	<i>Temp</i> 19°C	<i>ppm DO</i> 11 ppm (2 erroneous readings of 23 ppm discarded)	<i>% saturation</i> 120%	

<i>pH – Color Match Kit</i>	11:50 AM	8 all morning			
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
Biological-					
Fish – Seine – 4 pulls	Number	Name	Length of longest	Length of smallest	
9:15 AM-12:25 PM	4 5 14	Mummichog Striped Killifish Atlantic Silverside			
Fish Totals	TOTAL: 23	Diversity: 3			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	1	Blue Crab			
Macroinvertebrate Totals	TOTAL: 1	Diversity: 1			
Sediment Core –					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
17 cm	Yes	No	No	Abundant: mud Rare: sand, pebbles	Abundant: wood
17 cm	No	No	No	Abundant: sand Common: mud, pebbles Rare: clay, gravel	
17 cm	No	No	No	Abundant: sand Common: pebbles Rare: gravel	Rare: coal
Boats- NR					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					