

**Day in the Life of the Hudson River 10/14/21
Brooklyn Bridge Park Pier 4 Beach (East River)
RIVER MILE: 1.7**

Salt Front: ~ 49

Christina Tobitsch & Brooklyn Bridge Park Conservancy
29 students (2nd grade) & 10 adults

Latitude & Longitude – Latitude 40.69653°N & Longitude – 73.99971°W



Location: Pier 4, Brooklyn Bridge Park (East River)
Area: Sandy beach peninsula
Surrounding Land Use: Urban/Residential; Beach; Park
Sampling Site: Beach; RipRap (large rocks); Pipe entering the water
Shoreline: 100% Rocky
Water: Calm
Plants in area: No plants in the area; algae
River Bottom description: Sandy and rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:00 AM	23.35° C	74° 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>	Nothing unusual			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:00 AM	Rising during sampling	*LT at 10:04 AM HT at 4:35 PM	*used tide chart
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Still</i>

Water Temperature-	9:45 AM 10:20 AM 11:30 AM 12:50 AM	20.4° C 21.1° C 21.1° C 22° C	68.7° F 70° F 70° F 71.5° F		
Turbidity- <i>Turbidimeter (NTU); Long Sight Tube</i>	9:45 AM 10:40 AM 11:54 AM 12:20 PM	29 NTU 48 cm 58 cm 60 cm	Water seemed to be getting clearer as the morning progressed. Small pieces of algae in sample used.		
Chemical					
Salinity- meter/probe	9:45 AM 10:30 AM 12:50 PM	20.1 ppt 20 ppt 20.8 ppt	Probe Hydrometer probe		
Standardized Salinity – Refractometer	12:50 PM	21,000 ppm	21 ppt		
DO – Meter/probe	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% Saturation</i>	
	9:45 AM 12:50 PM	20.4° C 22° C	7.3 8.3	90% 120%	
pH – HORIBA multi-parameter probe <i>*These readings are puzzling and really varied for pH?</i>	9:45 AM 12:50 PM	8.6 9.7	10:30 am pH pen 10:30 am color match	7.6 7.0	
Nitrates- NR					
Phosphates- NR					
Biological					
Fish -	Number	Name	Length of longest	Length of smallest	
	1 13 3	Atlantic Menhaden Atlantic Silverside Scup (porgy)	8.5 cm 10 cm 11 cm	1 cm (larvae stage) 10 cm	
Fish Totals	TOTAL: 17	Diversity: 3			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	1 15 1 4 1	Long clawed Hermit Crab Ctenophore sp. Palaemonetes Shrimp Eastern Mud Snail Ribbed Mussel	NR	NR	
Macroinvertebrate Totals	TOTAL: 22	Diversity: 5			
Sediment Core					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
10 cm	No	No	No	Abundant: sand Rare: gravel	Rare: wood
Boats-NR					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential					