

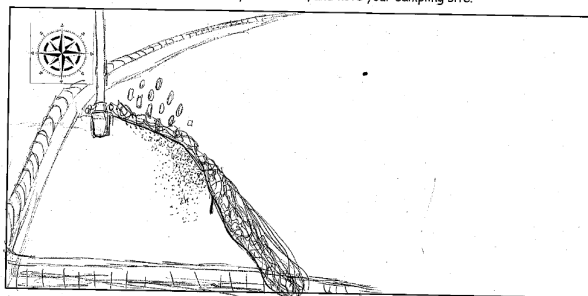
**Day in the Life of the Hudson River 10/22/19 Data
 BROOLYN BRIDGE PARK (WEST), MANHATTAN
 RIVER MILE: East River 2.3**

Salt Front: ~RM 54

Urban Assembly School for Emergency Management - Laura Singleton

24 students 10th -12th grade, 2 adults

Latitude 40° 42' 28.5" N & Longitude – 73° 59' 57.9"W



Location: Brooklyn Promenade- Brooklyn Bridge, Manhattan, NY

Area: Beach under the Brooklyn Bridge- 125 feet north of Dover street, west side of the East river. Pier and path for recreational walking, jogging, bike riding, and fishing. Surrounding land is a sandy beach with water. Water used for fishing and boating; beach is open to the public but no swimming; lots of rocks and sand; near parking lot.

Surrounding Land Use: 60% Urban Residential; 30% Industrial/Commercial; 10% Beach

Sampling Site: Sandy, beach, covered in vegetation, pier; banks altered; bulkhead with timbers; debris in area such as broken concrete, docking; riprap; pipe entering river (south CSO ~40 meters- not visible).

Water: Choppy

River Bottom: Sandy, rocky (pebbles and stones)

Plants: 3% plants covering the water area:

Surfaces Permeable (beach, vegetation inland) **& non permeable** (Pier, Pavement, Rock)

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	10:30 AM	15 °C	60° F	
<i>Wind Speed:</i>	NR			
<i>Weather Today:</i>	10:41 AM Overcast (>75 % cloud covered)			
	10:49 AM Drizzle			
<i>Weather Previous:</i>	NR			
<i>Water Temperature</i>	10:03 AM	15 °C	59°F	
	11:00 AM	16 °C	60°F	
<i>Turbidity -</i> <i>Long site tube</i>	2:00 PM	61.2 cm		
<i>Chemical</i>				
<i>Salinity- hydrometer</i>	10:03 AM	22, 20, 23 ppt	<i>Average 21.75 ppt</i>	
	11:01 AM	19, 21, 21 ppt	<i>Average 20.75 ppt</i>	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:40 AM	16 °C	5.5	55%
	11:15 AM	16 °C	7	75%
<i>pH - pH strips</i>	10:31 AM	7, 8, 6.5	<i>Average 7</i>	
<i>Fish – Seine</i> <i>Length of seine: 20'</i> <i>Width of seine: 4'</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	3	Atlantic Silverside	10 cm	
	TOTAL: 3	Diversity: 1		

<i>Macroinvertebrates-</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	2	Comb Jellies		
	TOTAL: 2	Diversity: 1		
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	9:55 AM 10:30 AM 11:05 AM		0 cm 10 cm 15.25 cm	
<i>Current- *measured in a cove</i>	<i>cm/second</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Change (cm/min)</i>
<i>Currents Flow</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
10:44AM – 45 cm/30 secs	1.5	0.03	South	Ebb
<i>Commercial Traffic</i>	11:30 AM	North River (NYC DEP)	North	Loaded