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 Leman Manhattan Preparatory School- Bill Livingston 36 students 10th -12th grade, 2 adults Latitude 40.7076 N & Longitude – 73.99982 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, 4 feet deep

River Bottom: Sandy, rocky (pebbles and stones)

ITEM	Time	Reading		Comments	
Physical				· · ·	
Air Temperature:	10:00 AM	13.9 °C	° F		
	1:20 PM	17.3 °C	° F		
	1:40 PM	17 °C			
	2:00 PM	16.4 °C			
	2:20 PM	16 °C			
Wind Speed:	10:40 AM	Beaufort: 4			
	2:20 PM	Beaufort: 6			
Weather Today:	NR				
Weather Previous:	NR				
Water Temperature	9:20 AM	17.1 °C	° F		
	10:00 AM	17.8 °C	° F		
	10:20 AM	16 °C	° F		
	10:40 AM	16.1 °C			
	1:20 PM	16.6 °C			
	2:00 PM	16 °C			
	2:20 PM	16.6 °C			
Turbidity -	2:00 PM	61.2 cm			
Long site tube					
Chemical	1			ł	
Salinity- hydrometer	9:20 AM	24 ppt			
	10:00 AM	23 ppt			
	10:20 AM	23 ppt			

	1.00 DM	20		
	1:00 PM	20 ppt		
	1:20 PM	25 ppt		
	2:00 PM	24 ppt		
	2:20 PM	24 ppt		T
DO –	Time	Тетр	ppm DO	% saturation
	9:20 AM	17.1 °C	12	105
	10:00 AM	17.8 °C	8	85
	11:40 AM		5.75	58
	1:00 PM		5.5	55
	2:00 PM	16 °C	6	63
pH - pH strips	10:00 AM	6	-	
pii piisuvps	10:20 AM	7		
	1:20 PM	6		
	2:00 PM	0 7		
	2:20 PM	7		
	10:40 AM	1.5 ppm		
Color Comparator Kits	1:00 PM	4.4 ppm		
	2:20 PM	1.0 ppm		
Phosphates –	10:40 AM	0.4ppm		
Flinn/LaMotte Color	1:20 PM	6.6 ppm		
Comparator Kits	2:20 PM	0.2 ppm		
Fish – Seine	Number	Name	Length of longest	
Length of seine: 20'	4	Atlantic Silverside]
Width of seine: 4'	1	Striped Bass		
5	1	Herring (shad)		
-	TOTAL: 6	Diversity: 3		-
	X 7 1	•	The second second	
	Number	Name	Length of longest	
	20	Comb Jellies		
	TOTAL: 30	Diversity: 1		
	Indirect Evidence	Blue Mussels	Mytilus edulis	
	from shells as	Surf calms	5	
	tides prevented	Quahog		
	exploring in tide	Oyster		
	pools	Blue Crab		
		European Green		
		Crab		
		Ocellated Lady		
Tides-		Croh		
Tidag_	T :	Crab	TT • 1	
	Time	Crab <i>Rising, Falling, Still</i>	Height (cm)	Rate of Tidal Change (cm/min)
	<i>Time</i> 9:00 AM		<i>Height (cm)</i> 0 cm	
	9:00 AM		0 cm	
	9:00 AM 9:20 AM		0 cm 2 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM		0 cm 2 cm 6 cm 8 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM		0 cm 2 cm 6 cm 8 cm 10 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM		0 cm 2 cm 6 cm 8 cm 10 cm 12 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 1:20 PM		0 cm 2 cm 6 cm 8 cm 10 cm 12 cm 76 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 1:20 PM 1:40 PM		0 cm 2 cm 6 cm 8 cm 10 cm 12 cm 76 cm 83.8 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 1:20 PM 1:40 PM 2:00 PM		0 cm 2 cm 6 cm 8 cm 10 cm 12 cm 76 cm 83.8 cm 91.4 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 1:20 PM 1:40 PM 2:00 PM 2:20 PM		0 cm 2 cm 6 cm 8 cm 10 cm 12 cm 76 cm 83.8 cm 91.4 cm 106 cm	
	9:00 AM 9:20 AM 10:00 AM 10:20 AM 10:40 AM 11:00 AM 1:20 PM 1:40 PM 2:00 PM		0 cm 2 cm 6 cm 8 cm 10 cm 12 cm 76 cm 83.8 cm 91.4 cm	

cove		Unchanged		(cm/min)	
Currents Flow	Cm/second	Knots	North/South	Ebb/Flood/Still	
10:00 AM	13.8				
1:20 PM	3				
1:40 PM	12				
2:00 PM	5				
2:20 PM	8				
2:40 PM	2				