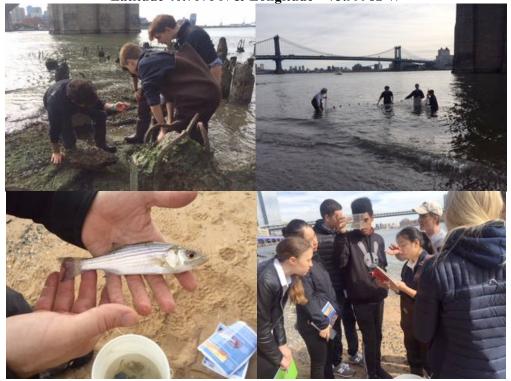
Day in the Life of the Hudson River 10/16/18 Data BROOLYN BRIDGE PARK (WEST), MANHATTAN RIVER MILE: East River 2.3

Salt Front: ~RM 24

Leman Manhattan Preparatory School- Bill Livingston 60 students 10th -12th grade, 6 adults BioBoat & BioBus- Mollie and James 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)

Plants: 3% plants covering the water area: Irish moss and Gracela

ITEM	Time	Reading	Reading					
Physical								
Air Temperature:	10:00 AM	13.1 ° C	55.5 ° F					
-	11:00 AM	18.61 ° C	65.5 ° F					
Wind Speed:	10:00 AM	Beaufort: 4	South					
	11:00 AM	Beaufort: 3	East					
	1:00 PM	Beaufort: 2	East					
	2:00 PM	Beaufort: 3	Southwest					
Weather Today:	No Rain; Partl							
Weather Previous:								
Water Temperature	10:00 AM	17 ° C	62.6° F					
	11:00 AM	16 ° C	60.8 ° F					
	2:00 PM	14.9 ° C	58.82 ° F					
Turbidity -	9:40 AM	Avg: 72.8 cm						
Long site tube	10:20 AM	Avg: 68 cm						

	1:10 PM	A 100 am	1	1
	1:50 PM	Avg: 100 cm Avg: 145 cm		
	1.50 FWI	Avg. 143 cm		
Chemical	T-		T-	
Salinity- hydrometer	9:40 AM	28 ppt	*Big adjustment between first and	
	10:20 AM	19 ppt	second reading; falling salinity with a rising tide is an interesting phenomena that may be due to a the excessive rain this fall.	
	1:30 PM	18.5 ppt		
	2:10 PM	17.7 ppt		
DO-	Time	Тетр	ppm DO	% saturation
	10:00 AM		7	80
	1:50 PM		7.2	70
	2:20 PM		7	68
pH - pH strips	9:40 AM	8		
	10:20 AM	7		
	1:30 PM	7		
	2:20 PM	7		
Nitrates – Flinn/Lamotte	9:40 AM	8.8 ppm		* Bill noted
Color Comparator Kits	10:20 AM	4.4 ppm		teacher had
	1:40 PM	4.4 ppm		double-checked
	2:20 PM	8.8 ppm		the results but
Phosphates –	9:40 AM	8.8 ppm		kits are low
Flinn/LaMotte Color	10:20 AM	4.4 ppm		resolution.
Comparator Kits	1:40 PM	4.4 ppm		These readings
	2:20 PM	8.8 ppm	T	are really high
Fish – Seine	Number	Name	Length of longest	
Length of seine: 20'	26	Striped Bass	18 cm	
Width of seine: 4'	9	Atlantic Silverside	8.5 cm	
Length of seine pull: 20'	TOTAL: 35	Diversity: 2		
Number of seines: 6 Macroinvertebrates-	Number	Name	Length of longest	
hand net in tide pool	2	Hermit Crab		-
	5	Asian Crab		
	20+	Sand Shrimp		2 F, 3 M
	Encrusting 50%	Barnacles		
	of rocks	2411140100		
	TOTAL: 27	Diversity: 4		1
Tides-	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)
	9:40 AM			-
	10:00 AM	Falling		0.05
	10:40 AM	Rising		0.0375
	11:00 AM	Rising		0.46
	1:40 PM	Rising		0.1238
Current- *measured in a	cm/second	Rising, Falling,	Height (cm)	Rate of Change
cove Currents Flow	Cm/second	Unchanged Knots	North/South	(cm/min) Ebb/Flood/Still
				200,11000,000
10:00 AM	7.2	0.140		
10:20 AM	12.1	0.235		
10:40 AM	3.8	0.074		
1:30 PM	8.6	0.167		
1:40 PM	19.2	0.373		