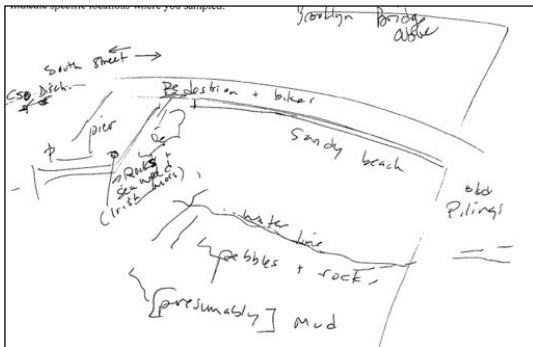


Day in the Life of the Hudson River 10/12/17 Data
(Saltfront ~ RM 65)
RIVER MILE East River 1.9 Westside of Brooklyn Bridge
Molly, the Lower East Side Ecology Center
Bill Livingston, Leman Manhattan Prep School
67 – 11 & 12th graders, 6 adults



Location: Brooklyn Promenade - Beach under the Brooklyn Bridge, 125 ft. North of Dover St., Manhattan side

Area: Pier and path for recreational walking, jogging, bike riding and fishing. The surrounding land is sandy with water – beach like. Water best used for fishing & boating. Lots of rocks and sand. Beach is opened to the public but no swimming. Also near a parking lot.

Surrounding Land Use: Urban/residential 49%; Industrial/Commercial 49%; Beach 2%;

Sampling Site: Sandy, Beach, covered in vegetation, banks altered, bulkhead with timbers, RipRap. Piping entering river (south CSO +/- 40 meters – not visible)

Plants: 0-2% of area, *Chondrus Crispis*, a species of red algae also known as Irish moss, visible at limit of low tide on rocks by pier, seeds of water chestnut

River bottom: sandy, rocky (pebbles and stones)

Water Surface: choppy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:20 AM 2:04 PM	17°C 16.1°C		
Wind Speed	Beaufort #4	North		
Cloud Cover	Mostly	50-75%		
Weather today	AM drizzle and light rain but in PM some sun			
Weather last 3 days	On and off rain			
Water Temperature -	9:48 AM 10:21 AM 10:50 AM	18.3 °C 17 °C		

	2:00 PM	19 °C 20 °C		
Turbidity <i>Long site tube</i>	9:50 AM 10:30 AM 1:30 PM 2:00 PM	81.7 cm 74 cm 52.6 cm 40.4 cm		
Chemical				
DO - Flinn kit	2:00 PM	20 °C	8.5 ppm DO	87% saturated
Salinity - Refractometer	9:20 AM 10:48 AM	24 ppt 27 ppt		
pH – litmus paper	9:20 AM	6 6 6	Average 6.3	
Nitrates	1:30 PM	0.633 ppm		
Phosphates	9:20 AM	0.03, 0.7, 0.6	Avg. 0.443 ppm at 9:20 AM	
	10:46 AM 1:54 PM	0.7 ppm 0.6 ppm		
Tides	9:39 AM	Rising	4.5 cm	
	10:00 AM	Rising	8 cm	0.167 cm/m
	10:30 AM	Rising	21 cm	0.433 cm/m
	10:51 AM	Rising	23 cm	0.95 cm/m
	1: 32 PM	Unchanged	20 cm	-0.019 cm/m
	1:50 PM	Rising	40 cm	1.11 cm/m
	2:04 PM	Falling	30 cm	-0.714 cm/m
Currents	Cm/sec	Knots	North/South	Ebb/Flood/Still
10:27 AM	20	0.389	South to N	Flood
10:50 AM	7.73	0.150	S to N	Flood
1:47 PM	10.7	0.208	S to N	Flood
2:05 PM	6.06	0.118	Variable	Still (turning)
2:20 PM	3.33	0.065	w/ Eddie	Ebb
Fish results	Totals	Species	Length	Totals
20 ft. net. 20 ft. pull	95	Atlantic Silversides	10 cm	CPUE for seine 0.779
6 pulls but data only for largest macroinverts	DIV 1	TOTALS 95		
	2	Asian Shore Crab	M & F	
		Ctenophore		
	1	Jellyfish (liriope tetrphylla)		
	>50	Barnacles		
		Amphipods		
	DIV 5	TOTALS ?		
Core/Sand	Abundant	Rare		

<i>description of sediments</i>	Sand Gravel Pebbles	Shells		
<i>Vehicles – Commercial</i>	10:45 AM	Ferry	North	loaded
	10:47 AM	White	North	Loaded
	10:53 AM	Seastreak	North	Loaded
<i>Recreational</i>	11:03 AM	White speedboat	North	Light