

Day in the Life of the Hudson River 10/16/18 Data
ENGLEWOOD BOAT BASIN, ENGLEWOOD NJ
RIVER MILE: 14

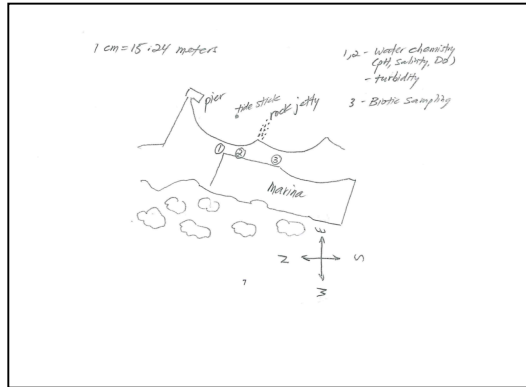
Salt Front: ~RM 24

Paterson Academy for the Gifted and Talented- Maureen Bruins

48 students 6th grade, 2 adults

Ramapo College/Meadowlands Environment Center- Kirk Weber

Latitude 40.881206 N & Longitude – 73.944894 W



Location: Bloomers Beach (North end), Englewood Boat Basin, NJ

Area: Sandy beach, banks altered, pier with riprap sections, wood bulkhead, forested area, parking lot. Piping ~30 feet located at sampling site. 2 concrete bulkheads and stone breakwaters as well as on shoreline.

Surrounding Land Use: 60% Forested; 10% Beach; 20% Industrial/Commercial; 10% Turf grass

Shoreline: Loamy sand- sandy and mud

Water: Calm, 88 cm depth

River Bottom: Muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	10:20 AM	16 ° C	60.8 ° F	
<i>Wind Speed:</i>	5.3 knots	6.1 mph	Beaufort 2	East
<i>Weather Today:</i>	Partly cloudy (26-50%)			
<i>Weather Previous:</i>	Light rain Sunday into Monday			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Change (cm/sec)</i>
	10:00 AM 11:51 AM	Rising Rising	40 cm 74 cm	- .306

	12:45 PM	Rising	88 cm	.260	
Currents Flow	Cm/second	Knots	North/South	Ebb/Flood/Still	
12:30 PM	40	.78	North	Flood	
Water Temperature	10:40 AM 10:55 AM 11:50 AM	12 ° C 12 ° C 15 ° C	54 ° F 54 ° F 59 ° F		
Turbidity- Long sight tube	10:56 AM	11cm, 11.5cm, 12cm	Avg: 11.5 cm		
Chemical					
Salinity- hydrometer	10:45 AM	6 ppt, 6 ppt, 7 ppt	6.3 ppt		
DO – ampules	Time	Temp	ppm DO	% saturation	
	12:15 PM	15 ° C	8	80%	
pH - indicator solution	11:05 AM	8			
Fish – 40" x 20' x ¼ " mesh Seine length: 20' Seine pull: 20' 3 Seines	Number	Name	Length of longest	7.3 fish per pull 10:30 AM CPUE .0328 11:30 AM CPUE .0738 12:00 PM CPUE .0738	
	19 3	Atlantic Silversides Striped Bass	5 in 5 in		
	TOTAL: 22	Diversity: 2			
Macroinvertebrates- Seine	Number	Name	Length of longest		
	13 2	Blue Crab Grass Shrimp			
	TOTAL: 15	Diversity: 2			
Boats	Time	Name	Color	North/South	Loaded/Light
NONE					
Other Observations					