Snapshot Day 10/20/15 RIVER MILE 13



Bloomers Beach @ Engelwood Boat Basin Jillian Decker, SUNY Rockland Community College, 10 students Natalie Macke – Pascack Hills High School Climate Stewards – 7 students, 10-12th N40.881361 -W73.943858







Location: Bloomers Beach – north end Area: sandy beach, banks altered, pier with rip rap sections, wood bulkhead, collected wood/debris in area, piping approx. 30" located at sampling site, 2 stone breakwaters as well as on shoreline, + cement storm wall Surrounding Land Use: 25% forested; 25% beach; 50% Industrial/commercial Bottom: Muddy Plants in area: none in the water Water Depth:~100 cm

ITEM	Time	Reading 1	Reading 2	Comments		
Physical						
Air	9:23 AM	11.8°C				
Temperature	10:30 AM	14.3				
	12:05 PM	16.1				
Wind Speed	9AM	Beaufort #4		SSE		
_	10AM		6 kts			
Cloud Cover	Clear					
Weather today	No precipitation - started out cloudy but cleared					
Weather	cool					
recently						
Water	Choppy			-		
Water	9:10 AM	19°C	66.2 °F			
Temperature		19°C	66.2°F			
		19°C	66.2°F			
	11:10 AM	19°C	66.2 °F			
		19°C	66.2°F			
		19°C	66.2°F			
Turbidity –	11.30 AM	21 cm	~40 NTUs			
long site tube	12:00 PM	35 cm	cloudy			
			looking			
Chemical						
DO –drop	11:10AM	8.2 mg/L	19° C	85%		
count	11:30 PM	7.2 mg/L	19° C	80%		
				saturated		
pH – litmus paper	1:00 PM	8.0				
Nitrates –	12.00 DM	0.25 m c/I				
Notrates –	12:00 PM	0.25 mg/L				
NOS						
Salinity	11:00 AM	15 ppt				
(refractometer)						
Fish Catch	Count	Fish	Size of	Macros		
			largest			
Minnow Trap	1	Atlantic				
		Silverside				
Macroinverts	5	Grass				
		Shrimp				
Tides	9:00 AM	Rising				
Currents						
11:15 AM	412/30secs	14cm/sec	0.27 kts	South		
1:15 PM –	1245cm/30sec	41cm/sec	0.8 kts	North		

very windy				
Boat Traffic	9:45 AM	Buchanan	Southbound	Light
Beach Core –	Length: 8 inches	Other: Little oil	Common: Clay, mud,	Rare: Pebbles
1:25 PM	0.25' water depth taken right off beach south of pier.	present. No Scent	sand	

Photos below from a second core (Natalie's Mackes students) Taken from ~0.5m of water. Clay and mud, no clear scent.

