

**Snapshot Day 10/12/17
(Salt front ~RM 65)
RIVER MILE 13**

Bloomers Beach @ Engelwood Boat Basin

**Natalie Macke – Pascack Hills High School AP Environmental Science Students
13 students, 11-12th graders
N40.881383 -W73.943899**



Location: Bloomers Beach – north end
Area: sandy beach, banks altered, pier with rip rap sections, wood bulkhead, forested area behind, with parking lot in front. Collected wood/debris in area, piping approx. 30” located at sampling site, 2 concrete bulkhead and stone breakwaters as well as on shoreline,
Surrounding Land Use: 25% forested; 25% beach; 50% Industrial/commercial
Shoreline: Loamy sand – sandy and muddy
Bottom: Muddy
Plants in area: none in the water

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:32 AM	11.7°C	55°F	
	9:57 AM	11.1	52	
Wind Speed	9:36 AM	Beaufort #5	5.7 m/s	SW
Cloud Cover	9:40 mostly overcast			
Weather today	A little rain in the morning			
Weather recently	Dry and warm until yesterday, then some rain			
Water	Choppy			
Water Temperature	9:33 AM	22°C	°F	
	10:07 AM	22°C	°F	
	10:12 AM	20°C	°F	
Turbidity – long site tube	9:35 AM	5.5 cm 6.1 cm 5.1 cm	5.567 cm	
Description	Yes the water was very turbid. It was very murky. There was barely any water before we could see the bottom.			
Chemical			Water	Saturation
DO –drop count	9:33 AM	8.4 mg/L	22°C	95%
	10:07 AM	7.65 mg/L	22°C	75%
	10:12 AM	7.12 mg/L	20°C	85%

pH – litmus paper	NR			
Salinity (refractometer)	9:33 AM	20 ppt		
<i>Fish Catch</i>	Count	Fish	Size of largest	Macros
<i>Tides</i>	NR			
<i>Currents</i> 9:46 AM	1097/30secs	37cm/sec	0.72 kts	South/ebb
<i>Core –</i> 9:33 AM	Length: 3 inches	Other: No Scent No oil	Common: Sand Pebbles	abundant: Clay, Mud, Gravel
Location of core N40.881338 -W73.944172				
<i>Commercial Boat Traffic</i>	9:36 AM	Ferry – Red	SW	Loaded
<i>Recreational Traffic</i>	9:36 AM	Sailboat – white	SW	Light
<i>Other Observations</i>	Seagull Dog	Artificial shoreline & Pier/dock area could affect data		