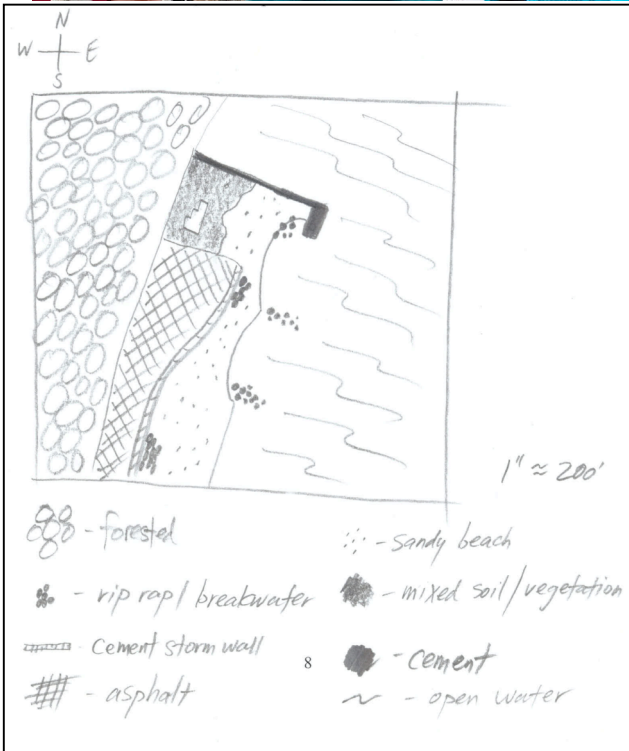


**Snapshot Day 10/14/10
(Salt Front RM 36.0)
RIVER MILE 13**

**Bloomers Beach @ Engelwood Boat Basin
Kirk Weber – Meadowlands Environmental Center
Judi Bettencourt – West New York Middle School – 7th & 8th graders
N40.881297 -W73.943948**



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: 20% urban/residential; 40% forested; 20% beach; 20% Industrial/commercial
Bottom: sandy & muddy
Plants in area: none in the water
Water Depth: 170 cm at high tide, or 5 ft. 7 inches

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				

Air Temperature	10:15 AM	18.8°C		
	11:30 AM	18.3°C		
	12:30 PM	16.6°C		
Wind Speed	Beaufort #2	5.82 kts 7.21 kts	6.7 mph	NE
Cloud Cover	Sky became increasingly cloudy throughout the observation period			
Weather today	No precipitation			
Weather recently	Nothing unusual to note			
Water	Choppy			
Water Temperature	9:50 AM	16.9°C 17.7°C 18.3°C	62.4 °F 63.9°F 64.8°F	17.6°C 63.7°F
	11:15 AM	18.3°C 18°C 18°C	64.9°F 64.3°F 64.3°F	18.1°C 64.5°F
	12:05 AM	18.3°C 18.4°C 18°C	64.9°F 65.1°F 64.4°F	18.2°C 64.8°F
Turbidity – long site tube	11 AM	41cm 37 cm 44 cm		40.6 cm
Chemical				
Chlorophyll	8:40 AM	0.5		
DO – ampules	11:45AM	8 mg/L	18.1° C	82.5% saturated
pH – indicator sol.	12:25 PM	8.0 7.5 8.0		7.8 avg.
Salinity (hydrometer)	12:40 PM	6 ppt 6 ppt 6 ppt		6ppt average
Fish Catch	Count	Fish	Size of largest	Macros
14 ft. X 3 ft seine – pulled 20 ft.	50 plus	Atlantic Silverside	9 cm	Blue Crab
3/16 inch mesh	1	Striped Bass	6.5 cm	Moon Jellies
	1	White Perch	9 cm	Shore shrimp
Seine #1	11:00 AM	15 fish	20 ft pull	.18
Seine #2	11:45 AM	11 fish	20 ft pull	.13

Seine #3	12:15 PM	12 fish	20 ft pull	.14
Tides	8:50	falling	47.5 cm	
	10:15	rising	65 cm	.21 cm/min
	11:20	rising	75 cm	.15 cm/min
	12:15	rising	97.5 cm	.41 cm/min
Currents	11:30	13.6 cm/sec	North	Flood
	12:25	30 cm/sec	North	Flood
Core –	20 cm total – overall black in color	Top layer 6 cm – dark blackish, pudding like	Second layer 14 cm –clayey	
Boats				