

**Snapshot Day 10/14/10 Data  
(Salt Front RM 36)  
RIVER MILE 18**

**Vicki Garufi - Beczak Environmental Education Center  
Harry Hall - Saunders Trade & Technical High School  
(20 students) 10<sup>th</sup> -12<sup>th</sup> grade, 1 teacher and 3 educators  
Latitude – N 40.93813129 Longitude – W -73.902888894**

**Location:** Habirshaw County Park, Seining beach, Beczak Center, Yonkers in Westchester County

**Area:** 2 acre riverfront property used for fishing, boats, seining, field trips and education programs

**Surrounding Land Use:** Urban/residential 10%, Forested 30%, Beach 50%, industrial/commercial 15%;

**Sampling Site:** beach, tidal marsh area covered with vegetation, sandy area, banks altered, large riprap on shoreline, collected wood/debris in area,

**Plants in area:** no plants in the water

**Water depth** – 3-4 feet

**River Bottom** – sandy, muddy (sticky), rocky

**Plants** –Spartina alterniflora in marsh, water celery

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature * note wind direction seems to be confused	9:41 AM – wind from south	15°C 59°F	9:56 AM – wind from North	16°C 60.8°F
	10:11 AM – wind from SE	20°C 68°C	10:28 AM – Wind from South	19°C 66.2°F
	10:47 AM – wind from E	19°C 66.2°C	11:00 AM – Wind from NE	17°C 62°F
	11:16 AM – wind from E	20°C 68°C	11:27 AM wind from E	19°C 66.2°C
Wind Speed –	2 Beaufort	4-7 km/hr	4-6 knots	North
Cloud Cover	Partly cloudy	Cirrus 1st 3 groups then shift to stratocumulous last 5 groups	No rain	
Weather today	No rain			
Weather recently				
Water calm	calm			

<i>Water Temperature –</i>	9:40 AM	16.5 °C 61.7 °F	9:50 AM	16.5 °C 61.7 °F
<i>Each is an average of 2 readings</i>	10:13 AM	16 °C 60.8 °F	10:20 AM	16 °C 60.8 °F
	10:47 AM	17.5 °C 63.5 °F	10:50 AM	18 °C 64 °F
	11:00 AM	17 °C 63 °F	11:20 AM	17 °C 63 °F
<i>Turbidity – sight tube – NOTE used in area where group was seining – so stirred up the mud</i>	AM	38 cm 27cm 27 cm 35 cm 41 cm 31 cm 35 cm 39 cm		34.13 cm average
<i>Chlorophyll</i>	9:40 AM 11:30 AM	0.7 0.2		
<i>Chemical</i>				
DO (chemette)	9:51 AM 10:00AM	17°C 17°C	9 mg/L 9 mg/L	95% saturated
	10:15 AM 10:30 AM	16°C 16°C	6 mg/L 9 mg/L	60% saturated 90% saturated
	10:50 AM 10:55 AM	18°C 17.5°C	9 mg/L 8 mg/L	95% saturated 85% saturated
	11:00 AM 11:40 AM	17.5°C 17.5°C	11 mg/L 10 mg/L	115% saturated 105% saturated
pH – color match	9:40 AM	8.0	9:55 AM	8.0
<i>Average 8.0</i>	10:15AM	8.5	10:20 AM	7.5
	10:50 AM	8.0	10:55 AM	8.0
	11:20 AM	8.0	11:35 AM	8.0
Salinity - hydrometer	9:40AM	0 ppt	9:50 AM	0 ppt
	10:13 AM	0 ppt	10:20 AM	0 ppt
	10:45 AM	1 ppt	10:55 AM	0 ppt
	11:15AM	0 ppt	11:20 AM	0 ppt

<i><b>Fish Catch</b></i>	<i><b>Number Caught</b></i>	<i><b>Species</b></i>	<i><b>Size of largest</b></i>	<i><b>Type</b></i>
Seine net 30 feet X 4 ft., 1.4 inch mesh - 34 ft. pull	18	Atlantic Silverside	8.5 cm	
9:30-11:30 AM	1	Bluefish	1 cm	
	9	Striped Bass	12.5 cm	
	3	Blue Crab		
	1	Sand Shrimp		
<i><b>Tides</b></i>	9:37 AM	8 cm		
	9:47AM	10 cm	rising	
	10:06 AM	14 cm		
	10:27 AM	19 cm	rising	
	10:45 AM	21 cm		
	10:57 AM	27 cm	rising	
	11:12 AM	31 cm		
	11:24 AM	35 cm	rising	
<i><b>Currents</b></i>				
	9:40 AM.		Still	
	9:59 AM		Still	
	10:07 AM		Still	
	10:28 AM		flood	
	10:45 AM		flood	
	10:59 AM		flood	
	11:14 AM		flood	
	11:25 AM		flood	
<i><b>Core Sample</b></i>	<i><b>Entire Length</b></i>	<i><b>Grain Size</b></i>	<i><b>Smell</b></i>	<i><b>Description</b></i>
<i><b>Group 1 Marsh sample</b></i>	15 cm – 5 cm top and 10 cm bottom	Small pebbles, mix/grainy,	Smells	Dark black in color. 2 distinct layers, no shells
<i><b>Traffic</b></i>	9:40 AM	Kayak	Yellow	Commuter – Alpine to Yonkers
	10:00 AM	Clearwater	Sailing around	Alpine to Yonkers
	11:00 AM	Riverkeeper	South	
<i><b>Other Items</b></i>	Spotted a great blue heron in the marsh, then took flight as the group approached to start the day.			