

**Day in the Life of the Hudson River 10/10/13 Data  
(Salt Front RM 69.3)**

**RIVER MILE 43**

**Riverfront Green, Peekskill, Westchester**

**Michael Billy, Walter Panas High School - 24 students, 12<sup>th</sup> grade APES, 3 adults**

**Latitude N 41°17'13" Longitude W 73°55'54"**

**Location:** Riverfront Green, Peekskill, Westchester County

**Area:** Grassy park area with beachfront, pier, sandy beachfront, used for picnics, boating and fishing

**Surrounding Land Use:** 100% beach

**Sampling Site:** beach with brick, charcoal, slag

**Plants in area:**

**Water depth:** 1 meter

**River Bottom** – sandy, muddy, rocky.

**Site Observations:** brick, crab shells, glass, plastic, water chestnut pods, H2O bottles

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b><i>Physical</i></b>				
Air Temperature	11:50 AM	50°F 10°C	12:12 PM	50°F 10°C
Wind Speed	3 Beaufort			
Cloud Cover	overcast			
Weather today	Overcast with sporadic light rain			
Weather recently	overcast			
<b><i>Water Surface</i></b>	Choppy			
<b><i>Water Temperature –</i></b>	11:50 AM	63 °F 17°C	12:12 PM	63 °F 17°C
<b><i>Turbidity – as noted</i></b>	11:30 AM 11:35 AM 11:41 AM	2.75 feet 37.2 cm 51.7 NTU	39.3 NTU	Secchi Long site tube turbidimeter
<b><i>Chlorophyll</i></b>		1.0		
<b><i>Chemical</i></b>				
DO (drop kits)	11:45 AM	6.3 mg/l	19.5°C	67 % satur.
pH	11:30 AM	7.5 X 3		7.5 average
Salinity - meter	11:30 AM	4.76 ppt 4.76 ppt		-
Salinity test strips	12:00 PM	0.449 % NaCl 0.375 % NaCl	811 ppm 677 ppm	
<b><i>Fish Catch- Noon</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Length</i></b>	<b><i>Diversity/ Totals</i></b>
20 ft net X 4ft– 60 ft. net X 4ft.	2	White Perch	16 cm	<b>DIV = 5</b>
7 runs	5	American	7.5 cm	<b>Totals - 25</b>

		Shad		
Used 2 different seines – 60 ft. 3 times and 20 ft. 4 times more successfully	16	Striped Bass	12 cm	
	1	Spottail Shiner		
	1	Atlantic Silverside		
<b>Tides</b>	11:30 AM	61 cm		
	1:00 PM	107 cm	46 cm 0.51 cm/sec	rising
<b>Currents</b>	<b>Time</b>	<b>Cm/175 sec</b>	<b>Cm/sec</b>	<b>Kts/Direction</b>
	11:30 AM	460	2.6 cm/sec	0.05 kts/flooding
<b>Core –</b>	<b>Length</b>	<b>Rare</b>	<b>Common</b>	<b>Abundant</b>
<b>2 meter water depth</b> <b>47° 17' 12" N</b> <b>73° 55' 54" W</b>	4 cm		sand	Mud
<b>Commercial Traffic</b>				
<b>Recreational Traffic</b>				
<b>Other Items</b>				