

**Day in the Life of the Hudson River 10/16/18 Data**  
**RIVERFRONT GREEN, PEEKSKILL**  
**Westchester County, NY**  
**RIVER MILE: 43.5**  
*Salt Front: ~ RM 24*

**Walter Panas High School, AP Environmental Science-**  
**Michael Billy, 22 students and 12<sup>th</sup> grade, 2 adults**  
**Latitude 41.28561 N & Longitude – 73.993176 W**

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

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

**Surrounding Land Use:** 50% grassy park; 40% industrial/commercial; 10% beach

**Sampling Site:** beach with brick, charcoal, slag and concrete bulkhead.

**Shoreline:** Rocky, sandy, and muddy with pebbles.

**Water Depth:** 2 feet

**River Bottom description:** Rocky

<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading</b></i>		<i><b>Comments</b></i>
<i><b>Physical</b></i>				
<i>Air Temperature</i>	9:30 AM – 1:00 PM	8 °C	46.4 °F	
<i>Wind Speed: anemometer</i>		15-20 mph		
<i>Weather today</i>	100% cloud cover			
<i>Water Temperature</i>	12:30 PM	16 ° C	60.8 °F	
<i>Turbidity - secchi disk</i>	9:30 AM – 1:00 PM	40 cm		
<i><b>Chemical</b></i>				
<i>Salinity- Low Range Quantabs</i>	9:30 AM – 1:00 PM	117 ppm Cl <sup>-</sup>	211.4 ppm total salinity	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:45 AM	16 ° C	11	110%
<i>pH – pH pen</i>	9:30 AM 10:30 AM	7.9 8.1		
<i><b>Fish</b></i>	<i><b>Number</b></i>	<i><b>Name</b></i>	<i><b>Length of longest</b></i>	
<i>Seine- 20 foot net 9 pulls</i>	51 25 12 2 1	Herring Striped Bass Banded Killifish Spottail Shiner Siverside	6.5 cm 5 cm 8 cm 10 cm 4 cm	
<b>Fish Totals</b>	<b>TOTAL: 91</b>	<b>Diversity: 5</b>		
<i><b>Tides-</b></i>	<i><b>Time</b></i>	<i><b>Rising, Falling, Unchanged</b></i>	<i><b>Height (cm)</b></i>	<i><b>Rate of Tidal Change (cm/min)</b></i>
	9:30 AM – 1:00 PM	Flood		17cm/180min =.094 cm/min
<i><b>Core</b></i>	<i><b>Description</b></i>	<i><b>Rare</b></i>	<i><b>Common</b></i>	<i><b>Abundant</b></i>
Water depth 50 cm	8 cm		mud	sand