

**Snapshot Day 10/18/11 Data**  
**(Salt Front RM 35.7)**  
**RIVER MILE 31 – Hook Mountain State Park**  
**Laurie Seeman & Joanne Dickey– Strawtown Art & Garden Studio**  
**Lorraine Marden, Jennifer Armoceda -Blue Rock School –**  
**5<sup>th</sup>, - 6<sup>th</sup> – 20 students, 1 additional adult helper**  
**40°7.18N Latitude - 73°54.76 W Longitude**



**Location:** Nyack Beach near Hook Mountain Sandy Beach right side of riverfront area  
**Area:** Park/Boat launch, sandy beach area on the point with riprap  
**Surrounding Land Use:** 5% urban/residential; 45% forested; 45% beach  
**Sampling Site:** Sandy beach – with a lot of trees, picnic tables, sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris –not many houses.  
**Piping coming** into river south of sampling site  
**Plants in water:** no plants in area  
**Plants in area:**  
**Water depth:** 36 inches  
**River Bottom** –sandy, rocky  
**Student site description:** I see lots of trees. I see some evergreens and willows. Its pretty rocky and sandy on the beach, and the water is pretty rough. The water is murky and you can't see through it. I think this place is used for fun! Wavy water.

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:09 AM	°C 70°F		
	1:30 PM	°C		

		66°F		
Wind Speed	Beaufort 1		SE	
Cloud Cover	cloudy			
Weather today	No rain. Wind picked up a bit as we sampled			
Weather last 3 days	Rain on Monday (1.2 inches); Tuesday 64° and sunny; Wednesday 59° and Sunny.			
<b>Water</b>	Choppy			
<b>Water Temperature</b>	10:36 AM	62°F 16°C		
	11:20 AM	66°F 19°C		
	11:46 AM	68°F 20°C		
	1:17 PM	65°F 18°C		
<b>Turbidity</b>	10:42 AM	40 JTU		
<b>Chlorophyll</b>	12:15 PM	1.0		
<b>Chemical</b>				
DO <i>Drop count</i>	12:06 PM	4 mg/L	20 ° C	44%
pH <i>Indicator solution</i>	12:11 PM	7.0		
<i>Phosphate</i>				
<i>Nitrates</i>				
Salinity <i>Test strip</i>	1:35 PM	970 ppm CL-		1752.4 ppm total salinity
<b>Fish Catch</b>		<b>Number Caught</b>	<b>Species</b>	<b>Length of largest</b>
<b>Seine 15 ft. X 6ft. Mesh 0.25 inch</b>		17	Spottail Shiners	3 inch
<b>Total 21 fish in 4 pulls</b>		3	Atlantic Silversides	3 inch
		1	Striped Bass	2.5 inch
<b>Tides</b>	10:15 AM	0	shoreline	
	10:33 AM	35 inches	From edge of shore to stick	rising
	11:07 AM	66 inches		rising
	11:50 AM	128 inches		rising
	1:30 PM	No actual measure	Lost stick to currents	rising
<b>Currents*</b>	<b>CM/60 secs</b>	<b>Cm/Sec</b>	<b>North/South Ebb/Flood/Still</b>	<b>Knots</b>
<b>11:10 AM</b>		7.12 cm/sec	North (Flood)	0.05 kts
<b>1:20 PM</b>		2.55 cm/sec	North (Flood)	0.13 kts

<b>Shipping Traffic</b>		Carton Cargo Ship	loaded	Northbound
<b>Other Observations</b>	Geese were evident as were numerous butterflies and 2 kayakers			
<b>Almanac</b>	10/18 Nyack – The tide seemed to increase quite rapidly. By early afternoon testing was relocated on higher ground. A favorite tree was climbed by the children as they ate their lunch high above the shore of the river. The wind picked up steadily as the afternoon lengthened.			
<b>*Currents note</b> – <i>There is a rock wall on the shoreline near sampling site. Very wide part of the river so current may not represent the main channel.</i>				
<b>Student Journals –</b>				
<p><b>"Scientists in the river" by Ashley</b> (5th/6th grader Blue Rock School) When I went to the Hudson River, I learned that the murkiness of the water is not pollution; it is actually some nutrition for the fish. I was so surprised that the tides came up high so quickly, and the wind got really strong. I enjoyed seining because my group caught four fish! I liked it because I loved the feeling when the waders kind of squeezed my body - I felt like I was on the moon. I also enjoyed the art because we used salt and added drops of paint, it blended together and looked cool. I liked the texture of the salt. I found Chemistry and the Physical stations challenging because of all the big and fancy words. Even though some things were challenging it was still fun to go and help the environment.</p>				
<p><b>"A Day in the Life Reflection" by Leon</b> – This pas Tuesday we went on a field trip to the Hudson River. We were citizen scientists for the day. We divided into four groups and there were four stations, and the groups rotated around the stations.</p> <p>Our group's first station was the chemistry station. At the chemistry station we measured the temperature of the water. We measured the Dissolved Oxygen in the water by pouring water in a tube and putting a tablet in it, and seeing what color it turned. This station was the most educational station.</p> <p>The next station was seining. There, we put on big waders that were up to my neck! Then, we took a big net and went out in the water to the top of our waders and then slowly went back to shore. We looked in our net and we saw three small fish. We looked in a fish guide to see what they were. Then we went out in the water again. I felt my waders squish me – it is very cool that you can be in the water but not get wet. This station was my favorite.</p> <p>Our next station was art. At art we had to choose a fish that lives in the Hudson River and draw it in crayon. We could choose whether or not to wet the paper. Then we put a little salt and paint over it. It was really cool – the crayon repels the paint and shows through. It was fun to draw a new way I never tried before.</p> <p>The last station was the physical station, where we tell scientists where we are and what might affect the water, and we drew pictures of what we saw.</p> <p>This day was the most fun and extraordinary day we had yet this school year.</p>				