

**Day in the Life of the Hudson River 10/20/16 Data**  
**(Salt front ~RM 83)**  
**RIVER MILE 9**  
**West Harlem Piers @ 125<sup>th</sup> street**  
**Ben Raikes, The School at Columbia, 57 students 6<sup>th</sup> grade, 10 adults**  
**Lat 40.8197, Lon. -73.9608**

**Location:** Pier 125, is an educational pier used for boating and fishing

**Area:** Pier –sampled at mid pier away from street and bulkhead

**Surrounding Land Use:** 100% Industrial Commercial

**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged concrete bulkhead, vegetation

**Plants in area:** No plants

**Water:** Calm but sometimes choppy

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<b><i>Physical</i></b>				
Air Temperature	10:00 AM 1:00 PM	22°C 25°C	71°F 77°F	
Wind Speed	10:00 AM	7 mph	NW	
Cloud Cover		Mostly cloudy	51-75%	
Weather today	no rain		<b><i>Water surface</i></b>	Calm
Weather recently	Warm and dry			
<b><i>Water Temperature</i></b>	10:00-1:00 PM	*7°C to 11°C	*Very cold	*Feels the thermometers were inaccurate
<b><i>Turbidity -</i></b> - <i>Secchi</i> - <i>Long tube</i>	AM	54, 52, 54 cm 38, 37, 34 cm		Average 53cm 72.6 cm
<b><i>Chemical</i></b>	<b>Time</b>	<b>ppm</b>	<b>Temp</b>	<b>% Sat</b>
DO – tablets	12:00 PM	8 ppm	20°C	88 % -
pH - tablets	11:00 AM	7 7 7		Average 7
Salinity - hydrometer	11:00 AM	20 ppt 22 18		Average 20 ppt
<b><i>Fish – rod and reel</i></b>	11:30 AM	1	Striped Bass	30.48 cm
		<b>TOTAL 1</b>	<b>DIV 1</b>	

<i>Tides - H2O depth</i>	<i>Time</i>	<i>Rise/Fall/Unch</i>	<i>Height cm</i>	
<i>*Measuring from height of top rail of pier to water surface. Larger #s equals lower tide..</i>	10:30 AM	1 <sup>st</sup> reading	99 cm	
	10:50AM	Rising	98 cm	
	11:15 AM	Rising	92 cm	
	12:00 PM	Rising	84 cm	
	12:30 PM	Rising	79 cm	
	12:47 PM	Falling	82 cm	
<i>Currents *Readings were taken close to the shore and we were limited by how far we could throw.</i>	<i>Time</i>	<i>Cm/'X' sec</i>	<i>Cm/sec</i>	<i>N/S - E/F</i>
	10:25 AM	447cm/25 sec	17.88	N - Flood
	10:45 AM	300 cm/58 sec	cm/sec	N - Flood
	12:00 PM	300 cm /47 sec	5.17 cm/sec	N - Flood
	12:30 PM	300 cm /81 sec	6.38 cm/sec	N - Flood
			3.7 cm/sec	