

Day in the Life of the Hudson River 10/20/16 Data
RIVER MILE 3.2
Hudson River Pier #51, Manhattan
Susan Price & 3 other lab teachers - NYC Lab High School
64 APES students (4) 11& (60) 12th grade
GPS coordinates: 40.738138, -74.010706



Location: Pier 51 – the Playground Pier, concrete pier
Area: Pier used for boating, picnics, fishing, playground, jogging, sitting and walking
Surrounding Land Use: 60% Urban/residential; 30% Industrial/Commercial; 5% Entertainment, 5% Planted.
Sampling Site: Recreational pier, grassy and concrete
Shoreline: Banks altered, wood bulkhead, pipe entering water, riprap, concrete bulkhead
Water Area: Bottom muddy, rocky
Water: Calm, slight chop, some wind
Plants in area: no plants in water, some trees planted on pier

<i>ITEM</i>	<i>Time</i>	<i>Air Temp.</i>	<i>Wind</i>	<i>Wind</i>
<i>Physical</i>			<i>Beaufort #</i>	<i>Anemometer</i>
<i>Air Temperature & Wind</i>	9:57 AM	13.4°C	#4 - SW	4.3 m/s SW
	10:25 AM	14°C		3 m/s SW
	10:46 AM	17 C		
Cloud Cover	Partly	26-50%		
Weather today	Some clouds to the north and to the south but no rain			
Weather recently	No rain – dry stretch			
<i>Water Temperature</i>	9:57 AM	14°C		
	10:05 AM	15°C		
<i>Turbidity –site tube</i>	10:30 AM 10:50 AM	48 cm 62 cm		Average 55 cm
<i>Chemistry</i>	<i>Time</i>	<i>Sigma</i>	<i>Color test</i>	

		Test Strip	match	
<i>pH – Color test match and test strip</i>	10:05 AM 10:13 AM 10:27 AM 10:52 AM	N/R 7.5 7.7 7.8	8.2 N/R N/R N/R	
<i>Salinity – plastic hydrometer</i>	9:52 AM 10:05 AM	27.5 ppt 28 ppt	Plastic hydrometer Glass hydrometer temp 15°C	
<i>D.O. - CHEMets</i>	9:57 AM 10:05 AM	15°C 15°C	5 ppm 7 ppm	47% saturated 61%
<i>Nitrogen – API Saltwater Master Test Kit</i>	Nitrate – 1.2 ppm	Ammonia - 0	Nitrite - 0	
<i>Fish – pole</i>	American Eel	Large Adult `	See photo above	
Tides	N/R			
Currents:	9:58 AM	580 cm/60 sec	9.7 cm/sec	N/flood
	10:11 AM	600 cm/60 sec	10 cm/sec	Ebb
*Currents – Samplers noted on data sheet that the tide chart said it would be an ebb tide and that the north blowing wind could have affected results, however the NOAA charts show the tide flooding at this time of the day.				
Commercial Traffic	Type	Color	North/South	Loaded/Light
10:05 AM	NY Waterway	White	North	Loaded with people
10:07 AM	NY water taxi		North	Some People
10:15 AM	US Army	Navy blue	South	Light
10:30 AM	Chandra B	White	South	Light
11:57 AM	Circle Line		South	Loaded with people
Recreational Traffic				
10:10 AM	Sailboat	White	North	
10:15 AM	Classic Harbor Line	White	South	Small engine propelled
10:41 AM	Sailboat	White	North	
Other Observations	Buildings, pigeons, humans and boats. We observed a lot of plastic floating near the pier. Also so a dead red-eared slider turtle which was a great teachable moment about caring for exotic pets and to never release them into the wild, especially to a saltwater environment when they are a freshwater species.			