

**Day in the Life of the Hudson River 10/20/16 Data  
Salt Front RM 83)  
RIVER MILE 9  
Pier 125  
N 40, W-73**

**Diane Lennon, Columbia Secondary School, 35 students 12<sup>th</sup> grade college  
environmental class, 1 adults**

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

**Area:** Pier – made of concrete.

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

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

**Plants in area:** Trees line the area but no plants in the water.

**Water:** Calm

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	1:49 PM	22.4°C	72°F	
Wind Speed	1:56 PM	Beaufort #2	4 mph	North
Cloud Cover	1:50 PM	Overcast	>75%	
Weather today	Overcast			
Weather recently	No rain, unseasonably warm – 70=80 degrees			
<i>Water Temperature</i>	1:35 PM 1:45 PM	18°C 17°C		Average 17.5°C
<i>Turbidity short site tube</i>	1:26 PM	40 cm		Water was surprisingly clear with only one drop the tap water matched the river water.
<i>Turbidity short site tube</i>	1:26 PM	5 JTU		
<i>Chemical</i>	<b>Time</b>	<b>ppm</b>	<b>Temp</b>	<b>% Sat</b>
DO	1:40 PM	6ppm	17°C	60 % -
pH color match kit	1:30 PM 1:35 PM 1:42 PM 1:47 PM	7 7 7 7		
Salinity – hydrometer	1:55 PM	25.8 ppt 26.4 ppt	17 °C	

		24.3 ppt		
Nitrates	1:35 PM	2.0 ppm		
Phosphates	1:45 PM	0 ppm		
Alkalinity	1:45 PM	60 ppm		
<b><i>Tides - water depth</i></b>	1:30 PM 1:45 PM	233.61 cm 246.38 cm	0.85 cm/min	
<b><i>Currents</i></b>	<b><i>Time</i></b> 1:36 PM 1:40 PM 1:45 PM	<b><i>cm/30 sec</i></b>	<b><i>Cm/sec</i></b>	<b><i>Ebb/Flood/still</i></b> Still Still Still
<b><i>Shipping – Commercial</i></b>	1:49 PM 1:50 PM 2:00 PM	Tan White US Army Corps of Eng.	Southbound Northbound Black/Yellow Southbound	Light Loaded Loaded
<b><i>Shipping Recreational</i></b>	1:40 PM	Black	North	Light
<b><i>Observations</i></b>	Power plant nearby & many commercial ships and boats that may impact our sampling.  Saw many seagulls & pigeons			