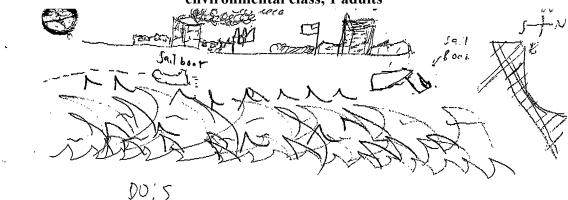
Day in the Life of the Hudson River 10/12/17 Data Salt Front RM 83) RIVER MILE 10 Pier 125

N 40, W-73

Diane Lennon, Columbia Secondary School, 35 students 12th 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% Urban/Residential

Sampling Site: on a pier, see gulls

Plants in area: no plants in the water area

Water: Calm; mud, sand, weeds, and rocks at bottom

ITEM	Time	Readings		
Physical Physical				
Air Temperature	1:55	67.8°F	19.9°C	
	2:00	68.1	20	
	2:02	67.9	19.9	
Wind Speed		7mph	NW	
Cloud Cover	1:50 PM	Overcast	>75%	
Weather today	Light showers			
Weather recently	Rain		•	
Water	1:43	17°C, 15°C	Average: 16°C	
Temperature	1:45	20,19	19.5	
(measured at	1:50	22,20	21	
1.1m)				

Turbidity (Secchi disk, cm)	1:30	115.24 cm 110.16 120.32	The water is slightly turbid. It takes about 100cm to not be able to see the secchi disk. We tested in different areas so that we could see how light penetration can affect the turbidity and get more accurate results. However, we found that even in more sunlight, the turbidity did not create an outlier.		
Chemical	Time	ppm	Temp	% Sat	
DO	1:24	6.6	15°C	65% -	
11	1:48	5	15	50%	
pH	1:25	7, 7.5, 7	Average: 7.2		
color match kit		TC (mgt)			
Salinity –	1.26	TS (ppt)			
hydrometer	1:36 1:42	20, 19, 20			
	1:42	20, 20, 20 20, 20, 20			
Nitrates	2:05	0 ppm			
(nitrate tablets)	2.03	o ppiii			
Phosphates	1:30	0.5, 0.5, 0.5			
Alkalinity	1:35	1000, 1000,			
(Direct reading	1.00	1000, 1000, 1000 (ppm)			
titrator)		(FF)			
Tides - water					
depth					
Currents	Time	cm/30 sec	Cm/sec	Ebb/Flood/still	
	1:45		43.33	Still	
	1:52		26.02	Still	
				Still	
Shipping –	1:52	Black	Stationary,	Loaded	
Commercial			south of GWB		
Shipping	1:30	White	Both		
Recreational		sailboat	directions		
Observations	We are on a pier, there are gulls.				