

Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE -4.2
Bayridge American Veterans' Memorial Pier
N 40. 38'22.-416 , W-74 .2'18.4308
Alicia Smith & International School of Brooklyn
22 Fifth graders, 4 adults



View from the pier. Sewage treatment plant visible in the foreground.

Location: Pier American Veterans' Memorial Pier, by highway, Park, 2 water treatment plants

Area: Pier – bulkhead – mainly concrete & wood. Two parks – Owl's head and Shore Road Park

Surrounding Land Use: 70% urban/residential, 10% Industrial Commercial, 20% park

Sampling Site: Recreational pier – rocks near the edge, banks altered /riprap, all hard edged, steep wall dividing water from land, pipe entering water from treatment plant

Shoreline: Rocky

Depth: could not see bottom

Plants in area: No plants

Water: Calm

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	11:21 AM	18.9°C	66 °F	
	11:45 AM	17.2°C	63 °F	
	12:06 PM	18.3°C	65°F	
	12:37 PM	19.8 °C	68°F	
Wind Speed	11:21 AM	Beaufort 3	9 kts	E/SE
Cloud Cover	11:21-12:31	Clear all day	<25% cloud	

			cover all day	
Weather today	Clear no rain, warm and windy		<i>Water surface</i>	
Weather recently	No rain for past 3 days. Sunday 10/18 unusually cold and windy. Monday 10/19 seasonal temperatures but still a bit windy.			
<i>Water Temperature</i>	11:21 AM 11:42 AM 12:26 PM	18°C 18°C 18°C	64 °F 64 °F 64 °F	<1 ft. depth, shade from pier, water choppy
<i>Turbidity</i>				
<i>Chemical</i>	Time	ppm	Temp	% Sat
DO Drop count kit	11:21 AM	7	18°C	72%
pH meter	11:21 AM 11:42 AM 12:20 PM 12:34 PM	7.95 7.96 7.96 7.96		
Salinity - hydrometer	11:21 AM 11:42 AM 12:20 PM 12:34 PM	25.5 ppt 26 ppt 25 ppt 25 ppt		
<i>Fish Catch</i>	Time	Species	# caught	Size
<i>Tides - water depth</i>	Time	Distance to water	Rate of change	Flood or Ebb
<i>Measuring down from pier using a secchi disk</i>	11:20 AM 11:40 AM 11:56 AM 12:15 PM 12:30 PM	300 cm 225 cm 275 cm 350 cm	Flooding Ebbing Ebbing	
<i>Currents</i>	Time	Cm/30 sec	Cm/sec	Knots & Ebb/Flood
	11:21 AM	1676.4	55.88	1.09kts F
	11:45 AM	411.48	18.75	0.24kts F
	12:06 PM	701.04	23.37	0.45kts F
	12:31 PM	792.48	0.51	0.51kts F
Note on recording sheet: Wind blowing east, current moving east, tidal flow moving east up the east river. Ebb on the Hudson.				

<i>Traffic-Commercial</i>	11:19-12:40	17-20 boats visible in area	Mainly cargo & ferry	12:02 – 1 police boat
<i>Recreational Traffic</i>	11:19 AM 11:19 AM 12:08 PM 12:26 PM	Sailboat speedboat Speedboat sailboat		
<i>Observations</i>	Observed gatherings of ducks and gulls. Oyster cage hanging from pier into the water			