

**Day in the Life of the Hudson River 10/16/14 Data
 (Hudson River Salt Front RM 65.9)
 RIVER MILE 35W – Bowline Park, Haverstraw Waterfront
 Chuck Barone, Nanuet High School – 12th grade – 19 students, APES and NAPES
 4 adults
 41.° 12'11" N 73.° 57' 48" W**



Location: Bowline Park, Haverstraw waterfront, Rockland County NY

Area: Parking lot, recreation, fishing

Surrounding Land Use: 30% beach, 50% Industrial/commercial, 20% urban/residential

Sampling Site: shoreline is sandy, muddy, rocky, small beach, bank altered, large rip rap, bulkhead, industrial tress spans the water to the north and east, bricks in the sand

Other Notes: The beach has a distinctive marker showing the high tide line or more commonly referred to as the 'rack line' where natural and man made debris line up

Plants in area: none

Water depth:

River Bottom – muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:45am	20°C	68°F	
	10:30 AM	20°C	68°F	
Wind Speed	11:21 AM Beaufort #4	11-16 kt	13-18 inches wave height	South
Cloud Cover	Mostly cloudy			
Weather today	Overcast	Cold	drizzle	
Weather last 3 days	Humid – unseasonably warm – rain last 2 days and into today, windy in the evening			
<i>Water</i>	See wave height above			

Water Temp.	9:45 AM	21°C	69.8°F	
	10:30 AM	23°C	73.4°F	
Turbidity – Long site tube	9:45 AM	27.3 cm 28.5 38.2		31.3 cm
	10:30 AM	43 cm 35 34.9		37.63 cm
Chlorophyll	11:35 AM	0.0		
Chemical				
DO		20°C	7 ppm	70 % sat.
Drop count	10:00 AM	20	6.6 ppm	65% sat.
	10:30 AM	23°C	5.1 ppm	60 % sat
		19°C	6.2 ppm	65% sat.
pH	9:45 AM	5		
Salinity: <i>Quantabs</i>	9:45 AM	5 HR	1216 ppm Cl-	2197 ppm TS
	10:30 AM	5 HR	1216 ppm Cl-	2197 ppm TS
Fish Catch	Time	Number Caught	Species	Length of largest
Seine 50 ft. X 6ft. Mesh 0.25 inch	9:45 AM	2	Striped Bass	Diversity - 2 Totals - 4
		2	Bay Anchovies	
	10:30 AM	4	Striped Bass	Diversity – 2 Totals - 14
		10	Bay Anchovies	
	10:40 AM	2	Striped Bass	Diversity 3 Totals 6
		3	Bay Anchovies	
		1	Alewife	
	TOTAL DIVERSITY	3	TOTAL CATCH	24
Tides	9:15 AM 10:30 AM	200 cm 90 cm	110 cm/75 mins 1.47 cm/min	falling
Currents	CM/60 secs	Cm/Sec	North/South Ebb/Flood/Still	Knots
9:15 AM	200cm/30 sec	6.6 cm/sec		
10:30 AM	156 cm/30 sec	5.2 cm/sec		
Core –	Unable to collect – too much sand			
Shipping	1 barge	No name	loaded	
Observations	3 deer			