

Day in the Life of the Hudson River 10/12/17 Data
(Saltfront ~ RM 65)
RIVER MILE 37 – Bowline Park, Haverstraw Waterfront
Chuck Barone, Nanuet High School – 30 students, 12th grade APES and NAPES
2 adults
41.° 12'8" N 73.° 57' 33" W

Location: Bowline Park, Haverstraw waterfront, Rockland County NY

Area: Parking lot, recreation, fishing

Surrounding Land Use: 10% beach, 75% Industrial/commercial, 15% urban/residential

Sampling Site: shoreline is sandy, 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: 25% coverage – 10 water chestnut washed into area, 10% water milfoil, 5% water celery

Water Surface – waves most of the day from a strong wind – wave height 0.5 m

River Bottom – sandy and rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:05AM 11:20 AM 12:30 PM	12.8°C 14.8 21.8	55°F 55.6 71.6	
Wind Speed	10:20 AM 11:20 AM 12:30 PM	Moderate Moderate Mild	5.1 mph 4.0 mph 3.6 mph	NE NE NE
Cloud Cover	8:30 Mostly cloudy	11:20 Partly Cloudy	12:30 PM Partly Cloudy	
Weather today	Rain in AM	When we first came out it was colder, windier and wetter		
Weather last 3 days	cloudy some rain			
Water	calm			
Water Temp. avg depth 2.5 ft	10:17 AM 11:22 AM 12:32 PM	20,22,21°C 22,22,23 21.8,21.8,23°C	70, 72, 72°F 71.6, 71.5, 73 71.6, 71.6, 73	Average 22°C 72°F
Turbidity – Long site tube	11:25 AM 12:00 PM 12:30 PM	27.4, 26.2, 24.6 30.1, 31.3, 31.6 34.3, 35, 35.7	26.1 cm avg 30.9 cm 35 cm	
Chemical				
DO <i>Drop count</i>	9:30 AM 11:30 AM 12:30 PM	25°C 22°C 23°C	7.6 ppm 8.7 ppm 7.4 ppm	90 % sat. 95% 85%
pH – litmus paper	9:10 AM 11:15 AM 12:20 PM	4,4,4 5,5,5 5,5,5	AVERAGES	5

Salinity: <i>Test strips</i>	9:10 AM 11:15 AM 12:20 PM	Zero results submitted		
Hydrometer	9:10 AM 11:15 AM 12:20 PM	10,8,8 ppt 8,9,7 ppt 10, 9, 8 ppt	Averages	8.67 ppt 8 ppt 9 ppt
Refractometer	9:10 AM 11:15 AM 12:20 PM	9, 10, 10 ppt 10, 10, 10 ppt 9, 9, 8 ppt	Averages	9.75 ppt 10 ppt 8.75 ppt
<i>Fish Catch - Seine 5.75 meters. Mesh 0.25 inch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>	
Fish - Seine 1 9:00AM	8	Atlantic Silverside	4.9 cm	DIV 1 TOTALS 8
<i>CPUE</i>	1 seine 8 caught	2160/39.37 conversion	8/55 meters	0.15 catch per meter
<i>Tides</i>	9:00 AM 11:00 AM	Set stick tide stick lost	50 cm Rising tide	
<i>Currents</i>	<i>cm/60 secs</i>	<i>Cm/Sec</i>	<i>North/South Ebb/Flood/Still</i>	<i>Knots</i>
9:00 AM	1185 cm	19.75 cm/sec	South ebb	
11:00 AM	730 cm	12.17 cm/sec	South-probably due to the edges of the Hudson being set away from the channel	