

**Day in the Life of the Hudson River 10/12/17 Data**  
**RIVER MILE 61**  
**(Saltfront Estimated RM 65)**  
**Riverfront Park, City of Beacon, Dutchess County**  
**Scenic Hudson**  
**Heidi Gesson, Haldane Middle School, 7<sup>h</sup> grade (40), 12 adults**  
**Latitude 41°30' Longitude 73°55'**

**Location:** Long Dock Park, Beacon, Dutchess County NY

**Area:** Long Dock Park - A former brownfield now public park used for fishing, launching kayaks, picnics, fieldtrips, enjoying scenic views of the Hudson River, Hudson Highlands and Hudson Valley. Most of the shoreline on the south side is lined with trees.

**Surrounding Land Use:** 25% forest, 15% beach, 60% other

**Sampling Site:** beach area rocky with lots of sand, water chestnut and grass

**Plants in water:** water chestnut

**Bottom Surface:** muddy, rocky bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:00 AM 10:30 AM 12:30 PM	15°C 16 19		
Wind Speed	9:30 AM 10:00 AM 12:00 PM	Beaufort 2 NR Beaufort 2	4 km/hr 13 km/hr NR	
Cloud Cover	9:30 AM 10:00 AM	Overcast Mostly cloudy		
Weather today	NR			
Weather recently	Warm and dry			
<i>Water Temp.</i>	<i>Time</i>	<i>Test one</i>		
	10:00 AM 10:30 AM 12:00 PM	22°C 20 23		
<i>Turbidity</i>	<i>Time</i>	<i>cm</i>		
<i>long site tube</i>	9:30 AM	30 – 51 cm		
<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>Saturation</i>
DO - recorded just % saturation	9:30AM 10:30 AM 12:00 PM	9	°C 20	67% 100% 105%

pH – <i>color match(Hach)</i>	9:30 AM 10:00 AM 10:30 AM 12:00 PM	7.4 7.4 7.4 7.6		
<b>Salinity</b>	<b>Time</b>	<b>Quantab Reading</b>	<b>Chloride</b>	<b>Total Salinity</b>
Quantab HR	1:00 PM	HR 5	1045 ppm Cl-	1888 ppm TS
<b><i>Fish Catch seine 30 feet</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Size of largest</i></b>	<b><i>10 seines completed</i></b>
	1	Bluefish	16 cm	<b>Diversity -7</b>
	1	American Shad	10 cm	<b>Total Catch - 11</b>
	1	Alewife Herring	9.5 cm	
	1	Golden Shiner	9 cm	
	4	Striped Bass	10 cm	
	1	Atlantic Silverside	4.5 cm	
	2	Spottail shiner	9.5 cm	
<b><i>Core</i></b>	<b><i>Description</i></b>	<b><i>Material</i></b>		
	No smell No oil	Gravel Mud		
<b><i>Tides</i></b>	<b><i>Time</i></b>	<b><i>Repeat measure/cm</i></b>		<b><i>Average</i></b>
	9:30 AM 10:00 AM 10:30 AM 11:00 AM 12:00 PM 12:30 PM 1:00 PM	21 cm 15 cm 12 cm 13 cm 12 cm 15 cm 16 cm		
<b><i>Currents</i></b>	<b><i>Time</i></b>	<b><i>cm/30sec</i></b>	<b><i>cm/sec</i></b>	<b><i>Average</i></b>
	9:30 AM 10:30 AM 11:00 AM 12:00 PM	740 cm NR 412 cm 627 cm	24.67 cm NR 13.7 cm 21 cm	14 kts