

**Day in the Life of the Hudson River 10/20/16 Data
RIVER MILE 61**

(Saltfront Estimated RM 83)

**Riverfront Park, City of Beacon, Dutchess County
Scenic Hudson**

Heidi Gesson, Haldane Middle School, 7^h grade (56), 9 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	9:50 AM 10:20 AM 10:55 AM 12:00 PM 12:30 PM	15°C 16 17 19 19		
Wind Speed	9:50 AM 10:20 AM 10:55 AM 12:00 PM 12:30 PM	0-4 10-13 0-10 8 5	km/hr km/hr km/hr km/hr km/hr	
Cloud Cover	NR			
Weather today	NR			
Weather recently	Warm and dry			
<i>water</i>	NR			
<i>Water Temp.</i>	<i>Time</i>	<i>Test one</i>		
	9:50 AM 10:30 AM 11:05 AM 12:10 PM 12:50 PM	19°C 19 19 19.5 19.5		
<i>Turbidity</i>	<i>Time</i>	<i>NTU</i>	<i>cm</i>	
<i>long site tube converted NTU to cm</i>	9:50 AM 10:27 AM 11:01 AM 12:15 PM 12:40 PM	28.5 14 30 35 40		

<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>Saturation</i>
DO (drop kit)	9:50 AM 10:30 AM 11:05 AM 12:10 PM 12:50 PM	7.5 ppm 7 ppm 8.5 ppm 8.5 ppm 8.5 ppm	19°C 19 19 19.5 19.5	80% 75% 90% 92% 68%
pH – <i>color match(Hach)</i>	9:50 AM 10:30 AM 11:05 AM 12:10 PM 12:50 PM	7.35 7.3 7.5 7.6 8.0		
<i>Salinity</i>	<i>Time</i>	<i>Quantab Reading</i>	<i>Chloride</i>	<i>Total Salinity</i>
Quantab LR & HR	9:50 AM 10:30 AM 11:05 AM 12:10 PM 12:50 PM	LR topped out HR 5.4 LR topped out HR 5.6 LR topped out	NA 1384 ppm NR 1404 ppm NR	2500 ppm 2536 ppm
<i>Fish Catch seine 30 feet</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size of largest</i>	<i>10 seines completed</i>
	1	Banded Killifish	4 cm	Diversity -7
	2	American Shad	7 cm	Total Catch - 16
	7	Alewife	7 cm	
	1	Menhaden	13 cm	
	2	Pumpkinseed	12 cm	
	1	Bluegill	10 cm	
	2	Bluefish	22 cm	
<i>Tides</i>	<i>Time</i>	<i>Repeat measure/cm</i>		<i>Average</i>
	9:50 AM 10:20 AM 10:55 AM 12:00 PM 12:30 PM	13, 12, 13 cm 15, 20, 23 cm 20, 27, 44 cm 70, 80, 85 cm 87, 95, 100 cm		12.6 cm 19.3 30.3 78.3 94
<i>Currents</i>	<i>Time</i>	<i>#1 cm/sec</i>	<i>#2 cm/sec</i>	<i>Average</i>
	9:50 AM 10:20 AM 10:55 AM 12:00 PM 12:30 PM	35.09 cm 5.5 cm 5 cm 40.79 cm 11.2 cm	22.28 cm 23.3 cm 5.3 cm 1 cm 1.76 cm	28.69 cm/sec 14.4 cm/sec 5.2 cm/sec 20.9 cm/sec 6.48 cm/sec