

Day in the Life of the Hudson River 10/16/14 Data
(Salt Front RM 65.9)
RIVER MILE 61.1 E
Beacon Landing Park, City of Beacon, Dutchess County
Nancy Rypkema and total of 16 adults/teachers - Valley Central Middle School,
7th & 8th graders (86 students and 16 adults)
Latitude 41°30' 22" N - Longitude 73°59' 07" W

Location: Beacon Landing Waterfront Park, Beacon, Dutchess County NY

Area: Park area near the Beacon train station – center at the park with stations all around it and fish in the cove at the end of the park - grassy lawns, forested around edges, parking lot to the side. Children’s play area

Surrounding Land Use: Industrial/Commercial 25%, Urban/residential 55%; Forested 5%; shoreline/beach 10% Other (Parkland) 5%

Shoreline: A bridge, train station, covered in vegetation trees, concrete debris, dock

Sampling Site: beach, covered in vegetation, banks altered, rip rap

Plants in the water: 15% of sample area

Water depth: 0.5 m

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	10:30 AM 11:38 AM	22.3°C 23.3°C	72.4°F 74.8°F	
Wind Speed	11:00 AM		4 kts	North
	Beaufort	#3-4	17-21 mph	
	Anemometer		2.8 kts	North
Cloud Cover	Overcast			
Weather today	Overcast – by 10:30 AM light rain which continued			
Weather recently	Last few days rainy and windy			
<i>Water Surface</i>	Choppy			
<i>Water Temperature</i>	Time	Degrees °C		
	9:40 AM	19.6°C 20.1	67°F 67	19.9°C 67°F
	10:06 AM	20.3°C	67°F	20.3°C 67°F
	10:43 AM	20°C 20.3	68°F 68	20.1°C 68°F
	11:38 AM	21.2°C 21.6	70.3°F 70.8	21.4°C 70.6°F
<i>Turbidity</i>	<i>Time</i>	<i>Turbidity Tube</i>		<i>Average</i>

<i>Long sight tube</i>	10:39 AM	35 cm 28 cm 31 cm		32 cm	
<i>Chlorophyll</i>	10:50 AM	1.0			
<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>% saturation</i>	
DO (drop kit)	9:47 AM 10:27 AM 11:45 AM	9 ppm 9 9	19.6°C 20°C 20.5°C	95% 95% 95%	
pH –	<i>Time</i>	<i>test strips</i>	<i>Probe</i>	<i>Probe Average</i>	
	10:11 AM	7	8.4,8.4, 8.4	8.4	
	10:40 AM	7, 7, 7	9.2, 8.5, 8.5	8.8	
	11:34 AM	7, 7, 8	8.6, 8.6	8.6	
	11:50 AM	7, 7, 7	8.5, 8.5, 8.5	8.5	
<i>Nitrates</i>	10:00 AM	0 ppm			
<i>Salinity – QTs- Time</i>	<i>Quantab reading</i>	<i>Quantab Average</i>	<i>Chloride reading</i>	<i>Total Salinity conversion</i>	
10:47 AM	5.8		338 ppm Cl-	611 ppm T.S.	
<i>Fish Catch seine 9X4feet</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length</i>		
	16	herring	10.5 cm		
	1	White Perch	33 cm		
	3	Silverside	12.2 cm		
	2	Killifish	20 cm		
	25	Spottail shiner	10 cm		
	1	Bay Anchovy	9 cm		
Total Catch	48	Diversity	6		
Sediment Core	Unable to get as too sandy				
<i>Tides</i>	<i>Time</i>	<i>Tide Stick</i>	<i>Flood/Ebb Still</i>	<i>Rate of change</i>	
	10:03 AM	63 cm	Start		
	10:25AM	56 cm	Ebb (Falling)	7 cm/22 mins	
	11:03 AM	42 cm	Ebb (Falling)	14 cm/38 mins	
<i>Currents</i>	<i>Time</i>	<i>Cm/60 secs</i>	<i>Cm/sec</i>	<i>knots</i>	<i>Ebb Flood</i>
	10:12 AM	300	5	0.10	Flood
	11:20 AM	100	1.6	0.3	Flood
	11:50 AM	100	1.6	0.3	Flood
<i>Shipping</i>	Saw the Clearwater sailing both North & South				