

Day in the Life of the Hudson River 10/20/16 Data
(Salt Front ~ RM 83)
RIVER MILE 61.2 E
Beacon Landing Park, City of Beacon, Dutchess County
Nancy Rypkema and total of 16 adults/teachers - Valley Central Middle School,
7th & 8th graders (85 students and 10 adults)
Latitude 41.508531, Longitude -73.98634

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: Urban/residential 100% (Parkland)
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: No plants
Water depth: <1 m
Bottom Surface: muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:20 AM 12:06 PM	17.2°C 19.3	61.7°F 66.8	
Wind Speed	Beaufort	#2	2.3 kts	NW
Cloud Cover	Mostly cloudy	56-75%		
Weather today	Small amount of precipitation			
Weather recently	Warm and dry			
<i>Water Surface</i>	Choppy			
<i>Water Temperature</i>	Time	Degrees °C		
	10:13 AM 11:15 AM 12:06 PM	20°C 20 21	68°F 68 70	
<i>Turbidity-long sight tube</i>	10:15 AM	24.8 cm		
<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>% saturation</i>
DO (drop kit)	10:00 AM	9 ppm	20°C	95%
pH – litmus paper	10:15 AM	7 7 7.5		7.2

<i>Nitrates</i>	11:30 AM	20 ppm X 3	??		
<i>Salinity – QTs- Time</i>	<i>Chloride reading</i>	<i>Quantab Average</i>		<i>Total Salinity conversion</i>	
9:00-12:00 PM Quantabs	1390 ppm Cl- 1390 ppm 1390 ppm			2511 ppm TS 2511 ppm 2511 ppm	
<i>Fish Catch seine 8X4feet</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length</i>	<i>Fish DIV 6 Total 24</i>	
4X6 ft. pull	14	Spottail shiner	13 cm		
	1	Common Carp	6.5 cm		
	2	Killifish	2.5 cm		
	1	Bay Anchovy	5 cm		
	2	Striped Bass	15 cm		
	2	Golden Shiner	7.6 cm		
	1	Black Crappie	5 cm		
	1	Yellow Perch	NR		
<i>Macroinvert</i>	2	Mud Crab		<i>Macro DIV 2 Total 9</i>	
	6	Blue Crab			
Sediment Core	NR				
<i>Tides</i>	<i>Time</i>	<i>Tide Stick</i>	<i>Flood/Ebb Still</i>	<i>Rate of change</i>	
	9:53AM 10:04 AM 10:30 AM 10:56 AM 11:27 AM 12:10 PM	18 cm 20 cm 25cm 35 cm 52 cm 70 cm	Rising Rising Rising Rising Rising Rising		
<i>Currents</i>	<i>Time</i>	<i>Cm/30 secs</i>	<i>Cm/sec</i>	<i>knots</i>	<i>Ebb Flood</i>
	10:00 AM 10:45 AM 11:15 AM 11:45 AM 12:30 PM	260 30 535 290 250	4.3 0.5 8.9 4.9 4.16	0.836	N