

Day in the Life of the Hudson River 10/29/14 Data
(Salt Front RM 65.3)
RIVER MILE 61E

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

Leah Horn, Haldane Middle School, 8^h grade (35), 3 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>
Physical				
Air Temperature	9:40AM	16°C		
	10:46AM	18		
	12:03PM	21		
	12:45 PM	21		
Wind Speed	9:45 AM	Beaufort#2	South	Overcast 75%
	10:47AM	Beaufort#1	South	Overcast 75%
	12:10 PM	Beaufort#3	West	Overcast 75%
	12:50 PM	Beaufort#3	Southwest	Overcast 80%
Cloud Cover	overcast			
Weather today	Some light rain throughout the day			
Weather recently	Cool and fall like – rain off and on			
water	Choppy, rough and cold			
Water Temperature	Time	Test one		
	9:40AM	15°C		
	10:20 AM	15.6		
	11:40 AM	16		
	12:24 PM	16.3		
Turbidity	Time	NTU/cm	NTU/cm	NTU/cm
long site tube converted NTU to cm	9:26 AM	16/39	9/55	8/58.5
	10:24AM	11/49	9/55	5/58.5
	11:42 AM	10/52	16/39	13/44.5
	12:23 PM	14/42	13/44.5	14/42
Chemical	Time	DO	Temp	Saturation
DO	9:40 AM	10 ppm	16°C	101%

(drop kit)	10:33 AM 11:40 AM 12:20 PM	9 ppm 11 ppm 8 ppm	15.7 15 16	95% Saturation 110% 95
pH – <i>color match(Hach)</i>	9:40 AM 10:42 AM 11:42 AM 12:23 PM	* * 7.4 7.4		*kit put together incorrectly
Salinity – Quantab LR		1.9 QT	53 ppm Chl-	95.7 Total Salinity
<i>Fish Catch seine 30 feet</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size of largest</i>	
	8	Striped Bass	155 mm	Diversity -6
	19	Alewife	100 mm	Total Catch - 58
	10	Blueback Herring	105 mm	
	10	Spottail Shiner	85 mm	
	5	White Perch	80 mm	
	6	Banded Killifish	70 mm	
<i>Tides</i>	9:47 AM 10:44 AM 12:03 PM 12:43 PM	37 inches 36 inches 42 inches 21.5 inches*	Did not use a tide stick, used two flags and measured the distance from the waters edge to the flag on shore. *Low tide on charts was at 10:36 AM for this area – this measure is a bit puzzling?	
<i>Currents – kts= Speed/51.4</i>	9:31 AM 10:32 AM 11:55 AM 12:34 PM	0.4 kts - Flood 0.38 kts-Flood 0 kts - still 0.23 kts-Flood	Calculated cm/sec from kts submitted	20.56 cm/sec 19.53 cm/sec 0 cm/sec – still 11.82 cm/sec
<i>Sediment Core</i>	<i>Length - describe</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>
<i>9:45 AM</i>	Not recorded	Sand	Pebbles, gravel	Mud
<i>10:30 AM</i>		Mud	Sand, Gravel, Pebbles	
<i>11:45 AM</i>		Clay Plant material	Mud	Sand, Gravel, Pebbles
<i>12:42 PM</i>		Clay, Sand		Mud, Gravel, Pebbles
<i>Shipping</i>	No boat traffic noted			
<i>Observation:</i> water chestnut seeds, rocks, sand, grass and shells. Also see birds and squirrels				