

**Day in the Life of the Hudson River 10/12/17 Data
(Salt Front ~RM 65)
RIVER MILE 18.3**

**Elisa Caref - Sarah Lawrence College Center for the Urban River @ Beczak
Penny Kelly, Lincoln High School (AP Bio, AP Chem, APES) 30 second graders, 4
adults total**

Latitude – N 40.9379702 - Longitude – W -73.9029181



Location: Habirshaw County Park,
Seining beach, SLCC@ Beczak,
Yonkers, Westchester County

Area: 2 acre riverfront county park
covered mostly by a grass lawn leading
down to the river where it meets a tidal
wetland and sandy beach. Property used
for fishing, boats, seining, field trips and
education programs – Park and some
urban – 75% urban residential, 25%
waterfront/beach,

Surrounding Land Use: Beach – 2 acre
park

Sampling Site shoreline: sandy beach,
tidal marsh area covered with vegetation,
banks altered, large riprap on shoreline,
collected wood/debris in area,

Plants in area: no plants in the shoreline
waterfront however in the marsh area
there is: mud wort, reed grass, saltwater
cordgrass, big cordgrass

River Bottom – muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>	
Physical					
Air Temperature	10:20 AM	17°C	62.8°F	Air cooler than water	
	11:04 AM	18	64.4		
	11:38 AM	17	62.8		
Wind Speed	10:25 AM	1.5 Beaufort	NE		
	11:01 AM	1	NE		
	11:37 AM	1.5	NE		
Weather today	Mostly cloudy, no precipitation				
Weather recently					
Water calm	calm				
Water Temperature	TIME	Hand held	Hand held	Probe	Probe
–					

	10:26 AM 10:54 AM 11:29 AM	68°F	20°C - 20 20	66.9 °F 67.1 66.38	19.4 °C 19.5 19.1
Turbidity –	Sight tube – 10:35 AM 11:11 AM 11:48 AM	49 cm 54 cm 55.8 cm		DigitalProbe 10:38 AM 11:17 AM	7.5 NTU 6.4 NTU 6.3 NTU
Chemical –	Time	Digital Probe	H2O Temp	% saturated	
DO – probe	11:38 AM 11:19 AM 11:48 AM	7.9 ppm 6.79 6.94	20°C	85% satur. 80%	
pH – indicator solution	11:30 AM	7.8 7.79 7.83	Avg – 7.8	Digital Probe	
Salinity –	10:27 AM	22 ppt 14 ppt 18 ppt	Avg – 18 ppt	Hydrometer	
	10:36 AM	15.6 ppt	15.6 ppt	Probe	
	11:02 AM	18 ppt 14 16	Avg. 16 ppt	Hydrometer	
	11:15 AM	14.73 ppt	14.73 ppt	Probe	
	11:25 AM	16 ppt 14 18	16 ppt	Hydrometer	
	11:35 AM	14.69 ppt	14.69 ppt	Probe	
Fish Catch - Seine net 30 feet X 4 ft., 1.4 inch mesh-	Number Caught –	Species	Size of largest	Notes	
FISH	1	Bay Anchovy			
	1	Atlantic Silverside			
	4	Striped Bass			
	19	mummichog			
	3	Naked goby			
	1	Northern pipefish			
TOTAL CATCH	29	FISH DIVERSITY	6		
macroinvertebrates					
	19	Blue Crab			
	33	Ctenophore			
	123	Shrimp			

MACRO INV		Moon Jelly		
	1 OTHER DIVERSITY	5 TOTAL OTHER		
<i>Tides</i>	10:18 AM	9cm		
	10:47 AM	20 cm	Rising	
	10:53 AM	24 cm	Rising	
	11:21 AM	37 cm	Rising	
	11:27 AM	39 cm	Rising	
	11:50 AM	54 cm	Rising	
<i>Currents</i>	10:45 AM	Orange didn't move	Still current	
	11:15 AM	15cm/sec	flood	
	11:30 AM	0.83 cm/sec	flood	
<i>Sediment Core</i>	GROUP	TOTAL LENGTH	TOP	BOTTOM
	Group 1	14 cm length	2 cm brown top (oxidized)	12 cm black color
	Group 2	9 cm length	0.5 cm more clay	8.5 cm very dark and worms
	Group 3	11.5 cm length	1.5 cm oxidized top	5.5 cm rocky pebbles
<i>Other</i>				