

Day in the Life of the Hudson River 10/22/19 Data
SARAH LAWRENCE COLLEGE CURB: BECZAK, RIVER MILE: 18.3

Salt Front: ~RM 53

High School for Environmental Studies – Alex Marx, AP Science & Environmental English
21 students 11th -12th grade, 5 adults
Elisa Caref, SLL CURB

Latitude 40.938483 N & Longitude -73.90291 W

Location: Sarah Lawrence College CURB at Beczak, Habirshaw County Park, Yonkers, Westchester County, NY
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 some education programs.

Surrounding Land Use: 75% Urban/Residential; 25% Beach/Waterfront

Sampling Site: 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 water area; however in the marsh, there is mud wort, reed grass, salter cordgrass, big cordgrass

River Bottom: Muddy

ITEM	Time	Reading		Comments
Physical				
<i>Air Temperature:</i>	10:53 AM	14 ° C	54 ° F	
<i>Wind Speed:</i>	10:56 AM	Beaufort 0-1	East	
<i>Weather Today:</i>	Rain, overcast			
Water Temperature- YSI Probe	11:55 AM	17.2 ° C	° F	
<i>Thermometer</i>	11:55 AM	15.5 ° C		
Turbidity - YSI Probe	11:55 AM	5.8 NTU		
<i>Long site tube</i>	11:55 AM	57 cm		
Chemical				
<i>Salinity- YSI Probe</i>	<i>Time</i>	<i>Total Salinity</i>		
	11:55 AM	7.9 ppt		
	11:55 AM	10 ppt		
<i>*Hand tool - hydrometer or Refractometer?</i>				
<i>DO – YSI Probe</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:55 AM	15.5 ° C	9.22 ppm	
<i>pH – YSI Probe</i>	11:55 AM	7.92		
	<i>Hand Tool –test kit</i>	8.0		
Fish- Seine 11 Total Hauls	Number	Name	Length of longest	
	8	Atlantic Silverside		
	1	Winter Flounder		
	4	Striped Bass		
	TOTAL: 13	DIVERSITY: 3	FISH	
	5	Blue Crab		
	10	Comb Jelly		
	35	Moon Jelly		
	1	Sand Shrimp (Crangon)		

	TOTAL 51	DIVERSITY: 4	MACROS	
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	10:53 AM 12:01 PM	- Rising	18 cm 37 cm	19 cm/68 mins 0.3 cm/sec
<i>Currents Flow</i>	<i>Time</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>	
	NR	South	Ebb	720 ft/hr* current definitely flowing south but tide was rising
<i>Sediment Core</i>	<i>Description</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
11 cm long core	H2S (Sulfur smell) Oxidized top		Clay, Mud, Sand, Pebbles, Wood, Shells	Leaves