

**Day in the Life of the Hudson River 10/22/19 Data**  
**(Salt Front ~RM 53)**  
**RIVER MILE 35E**

**Croton Point Park, Croton on Hudson**

**Donna Light-Donovan – Croton Point High School – 50, 9th & 12<sup>th</sup> graders, 5 adults**  
**Latitude 41.2084 N Longitude 73.8912 W**

**Location:** Mother's Lap, Croton Park NY

**Area:** Rocky beach surrounded by rising forested land, pier, beach, grassy, landfill

**Surrounding Land Use:** Beach 80%, 20% landfill across the road, Forested behind

**Sampling Site:** Beach area with with raprap @ north end, collected wood debris in area

**River Bottom** – sandy bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
<b>Air Temperature</b>	9:30 AM 2:30 PM	21°C 20 °C		
<b>Wind Speed</b>		NR		
Cloud Cover	overcast			
Weather today	Overcast and damp			
Weather recently	N/R			
<i>Water Temperature</i>	12:30 PM 1:00 PM 1:30 PM 1:47 PM	17 ° C   16.7° C	61, 61, 59 °F 60, 61 °F 52 (?), 58°F	60.75 °F /17 °C 60.5 °F 55 °F
<i>Water</i>	N/R			
<i>Chemical</i>	<i>TIME</i>	<i>Reading Hach Kit</i>	<i>E Probe</i>	
<i>DO - surface</i>	12:45 PM 1:00 PM 1:23 PM 1:41 PM 1:47 PM 1:54 PM	12 ppm 6 ppm 10 ppm 34 ppm (error)  11 ppm	9.66 ppm	100%
<b>pH</b>	1:47 PM	7.89		
<i>Salinity – Quantabs HR</i>	12:30 PM 1:30 PM	5.8 Q.Tab unit 5.6 Q Tab unit	0.259%NaCl 0.248%NaCl	1634 ppm Cl- *2824 ppm TS 1505 Cl- TS *2719 ppm TS
<b>Refractometer *</b>	12:30 PM 1:00 PM	20,20,20 23, 25, 23	Avg. 20 ppt Avg. 23.66 ppt	<b>*these readings were too high (20 to 23.66 ppt? Should be 2.0 and 2.4 ppt)</b>
<i>Salinity e-</i>	1:47 PM	2.85 ppt		2850 ppm TS

<i>probe</i>				
<b>Turbidity - Secchi</b>	12:30 PM 1:00 PM 1:30 PM	40, 52, 78 cm 45, 49, 60 cm 70, 65, 79 cm	Average	56.67 cm 51.33 cm 71.33 cm
<b>Turbidity – Long tube</b>	12:30 PM 1:00 PM 1:30 PM	47, 44, 46 cm 46, 45, 44 cm 39, 41, 43 cm	45.67 cm 45 cm 41 cm	<b>E Probe</b> 9.5 fnu = 45 cm
<b>Sediment Core</b>	<b>Comment</b>	<b>Abundant</b>	<b>Common</b>	<b>Rare</b>
<b>1:45 PM in 3 ft. water</b>		Sand		Mud
<b>Fish –</b>	<b>PM</b>	<b>Species</b>	<b>length</b>	
Seine 15 ft. X 4 ft. tall – <b>12:30 PM</b>	8	Atlantic Silversides		
	2	Striped Bass		
<b>1:00 PM</b>	2	White Perch		
<b>Macros 12:30</b>	2	Blue Crab		
<b>TOTAL FISH</b>	<b>12</b>	<b>DIVERSITY 3</b>		
<b>TOTAL MACRO</b>	<b>2</b>	<b>DIVERSITY 1</b>		
<b>Tides</b>	N/R			
<b>Currents</b>	N/R			