

**Day in the Life of the Hudson River 10/16/18 Data
UPPER NYACK STATE PARK, BEACH STEPS
RIVER MILE: 30.5**

Salt Front: ~RM 24

**Clarkstown North High School- Jessica Flanagan
19 students, 11th and 12th grade, 5 adults
Latitude 41.120646 N & Longitude – 73.911161 W**

Location: Upper Nyack Stte Park, Beach Steps, Rockland County, NY

Area: North of the Tappan Zee Bridge, west side of the river

Surrounding Land Use: 40% Forested; 30% Industrial/Commercial; 20% Beach; 10% Grassy

Sampling Site: Beach- sandy and rocky at edges, muddy offshore, covered with vegetation beyond beach
concrete bulkhead, riprap

Shoreline:

River Bottom: Muddy, sandy, rocky

Plants in area: no plants in water area

Water: choppy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	10:40 AM	13.34 °C	56 °F	
	10:58 AM	15.57 °C	60 °F	
<i>Wind Speed:</i>		14 mph	Beaufort 4	Northeast
<i>Weather Today:</i>	No rain, partly cloudy (26-50%)			
<i>Weather Previous:</i>	Heavy rain the last two days, seasonal temperatures			
Water Temperature	10:27 AM	15 °C	59 °F	
Turbidity- long turbidity tube	11:00 AM	14 cm		
	Avg:	17 cm		
		15.5 cm		
Chemical				
<i>Salinity- refractometer</i>	10:34 AM	3 ppt TS	<i>Unrealistic reading</i>	refractometer
		<i>Below detection</i>		Hydrometer
		<i>Below detection</i>		HR quantab
<i>Dissolved Oxygen – drop count test kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:27 AM	15 °C	8.5 ppm <i>Between 8 or 9 drops</i>	82%
<i>pH - pH strip</i>	10:23 AM	7.2		

<i>Biological</i>					
<i>Fish – seine</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	8:15 AM-10:00 AM 30 ft seine net, ran 3 catches
	7	Striped Bass		13 cm	
	4	American Eel		15 cm	
	2	Hogchoker		10 cm	
	TOTAL: 13	DIVERSITY: 3			
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	
	43	Blue Crab		6.4 cm	
	7	Grass Shrimp		4 cm	
	1	Mud Crab		1.3 cm	
	TOTAL: 51	DIVERSITY: 3			
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
	10:25 AM	-	0	-	
	10:52 AM	Falling	19cm	0.70	
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>	<i>North/South</i>	<i>Loaded/Light</i>
Commerial	11:00 AM	Oil Tanker	Gray	North	
Recreational	10:00 AM	Single Skull	Brown	North	
<i>Other Observations</i>	Caught a Common Carb skull. Saw bultures, seagulls, clam shells.				