

Day in the Life of the Hudson River 10/16/18 Data

DENNINGS POINT, BEACON

RIVER MILE: 60

Salt Front: ~RM 24

Oakwood Friends- Miriam Straus

Beacon Insittute of Rivers and Estuaries- Clarkson University- Asher Pacht

9 students, 8th grade, 2 adults

Latitude 41.508064 N & Longitude – 73.977554 W



Location: Dennings Point, City of Beacon, Dutchess County, NY

Area: Forested; 200 yards south of Long Dock rd, parking lot, nature preserve with few buildings

Surrounding Land Use: 80% Forested; 20% Beach with large piping entering the water

Sampling Site: Beach, covered in vegetation, rocky and sandy

Shoreline: Sandy

River Bottom: rocky

Plants in area: no plants in the water area

Water: Choppy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	-	°C	°F	
<i>Wind Speed:</i>	10:40 AM	Beaufort 3		
	10:55 AM	Beaufort 4		
<i>Weather Today:</i>				
<i>Weather Previous:</i>				
<i>Water Temperature</i>	-	°C	°F	
<i>Turbidity- secchi disk</i>	10:25 AM	40 cm		
	10:45 AM	49 cm		
	11:05 AM	98 cm		
Chemical				
<i>Salinity- LR Quantab</i>	10:15 AM	0.4 ppm Cl-	<i>Unrealistic reading. LR Quantabs don't measure that low</i>	
<i>Dissolved Oxygen – drop count kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	-		9	
	-		9	
	10:19 AM		10	
<i>pH - color match test kit</i>	10:15 AM	9		<i>high reading; suspect erroneous</i>

Biological					
Fish – seine	Number	Name		Length of longest	10-11 AM 7 seine pulls CPUE 2
	5	Shiner		inch	
	1	Herring		inch	
	1	American Eel		inch	
	1	Large Mouth Bass		inch	
	2	Tesselated Darter		inch	
	1	Striped Bass		inch	
TOTAL: 11	DIVERSITY: 6				
Macroinvertebrates- Seine	Number	Name		Length of longest	
	3	Mud Crab			
	TOTAL: 3	DIVERSITY: 1			
Tides	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
	10:05 AM	Flooding	21	-	
	10:36 AM	Flooding	25	0.13	
	10:55 AM	Flooding	27	0.11	
Sediment Core	Water depth	Length	Oxid Top	Grain Size	Other
	-	-	NO	Common: Pebbles	Common: wood