

Day in the Life of the Hudson River 10/16/18 Data
ESOPUS MEADOWS, ULSTER PARK, RIVER MILE: 87

Salt Front: ~RM 24

Robert Graves Elementary School- Donna Nageli

45 students 4th grade, 6 adults

Eli Schloss, Hudson River Sloop Clearwater

Latitude 41.868266 N & Longitude - 73.950724 W

Location: Beach Lighthouse Park, Esopus Meadows Preserve, Town of Esopus, Ulster County, NY

Area: A path along the beach with rising forested hills

Surrounding Land Use: 85% Forested; 10% Beach, 5% Other

Sampling Site: Rocky shallow, sloping beach area covered with vegetation

Water: depth- 2 feet, calm

River Bottom: Muddy, Rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature:</i>	10:01 AM	14 °C	57 °F		
	11:10 AM	16 °C	61 °F		
<i>Wind Speed:</i>		Beaufort 1			
<i>Weather Today:</i>	No rain, partly cloudy (26-50%)				
Water Temperature	10:50 AM	12 °C	53.6 °F		
	1:14 PM	18 °C	64.4 °F		
Turbidity- long site tube	10:19 AM	23 cm, 22 cm, 18 cm	Avg: 21 cm		
Chemical					
<i>Standardized Salinity- Low Range Quantabs</i>	<i>Time</i>	<i>Chloride</i>	<i>Total Salinity</i>		
	12:30 PM	Below Detection			
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	
	11:00 AM	12 °C	8	75%	
<i>pH – indicator solution</i>	12:42 PM	8.5, 8, 8	Avg: 8.25		
Fish- Seine 25' x 4' x 1/4'	Number	Name	Length of longest		
	4	Banded Killifish			
	8	Pumpkinseed			
	9	Bluegill			
	2	Tessellated Darter			
	1	Bullhead Catfish			
	TOTAL: 24	Diversity: 5			
Macroinvertebrates	Number	Name	Length of longest		
	3	Blue Crab			
	TOTAL: 3	Diversity: 1			
Tides-	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
	10:09 AM	Falling			
	10:43 AM	Falling			
	11:10 AM	Falling			
	12:20 PM	Falling			
	12:50 PM	Rising			
Boats	Time	Name	Color	North or South	Loaded or Light
	Commercial Recreational	10:09 AM 10:43 AM	Intermarine		Northbound Southbound