

Day in the Life of the Hudson River 10/22/19

ESOPUS MEADOWS, ULSTER PARK

RIVER MILE: 87

Salt Front: RM 53

Eli Schloss- **Clearwater**

Donna Nageli- **Robert Graves ES**

45 students 4th grade, 10+ adults

Latitude 41.868266 N & Longitude – 73.950724

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

River Bottom: muddy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>			<i>Comments</i>
Physical					
<i>Air Temperature:</i>	10:15 AM	16 °C	61 °F		
	10:41 AM	16 °C	60 °F		
	11:20 AM	14 °C	58 °F		
<i>Wind Speed:</i>	11:20 AM	Beaufort 1	South		
<i>Weather Today:</i>	10:15 AM- Mostly cloudy (51-75%)				
<i>Weather Previous:</i>					
Tides- tide stick	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
	10:15:00 AM	Falling			
	10:41 AM	Falling			
	11:20 AM	Falling			
	12:44 PM	Falling			
Currents Flow	<i>Time</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:15 AM			South	Ebb
	10:41 AM				
	11:20 AM				
Water Temperature	1:10 PM	15 °C	59 °F		
		15 °C	59 °F		
		15 °C	59 °F		
Turbidity- Long sight tube	10:22 AM	43 cm, 57 cm, 46 cm			Avg: 48.6 cm
Chemical					
<i>Salinity- Refractometer</i>	10:22 AM	<i>ppm Cl-</i>	<i>0 ppm TS</i>	<i>Quantabs are a better option for this site</i>	
<i>Dissolved Oxygen –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	
	12:34 PM	15 °C	12 ppm	120%	
<i>pH - Color Match Test Kit</i>	1:10 PM	7, 7.5, 7.5			Avg: 7.33

<i>Biological</i>					
<i>Fish – Seine</i> <i>25' x 4' x 1/4"</i> <i>TOTAL: 11 pulls</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	10:01 AM	
	3	Striped Bass	8 cm		
	1	Banded Killifish	7 cm		
	1	Yellow Perch	25 cm		
	1	Bluegill Sunfish	5 cm		
	1	White Perch	20 cm		
	59	Spottail Shiner	5 cm		
	2	Largemouth Bass	8 cm		
	2	Red Breast Sunfish	10 cm		
TOTAL: 70	DIVERSITY:	8			
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>		
	TOTAL: 0	DIVERSITY:	0		
<i>Sediment Core</i>	<i>Water depth</i>	<i>Length</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other</i>
NR					
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>	<i>North/South</i>	<i>Loaded/Light</i>
NR					
<i>Other Observations</i>	N/R				