

Day in the Life of the Hudson River 10/13/22

Esopus Meadows Preserve, Ulster Park, NY

RIVER MILE: 87

Salt Front: ~ RM76

Eli Schloss– Hudson River Sloop Clearwater Tideline Program

Kingston High School - John Prizzi teacher

30 students & 3 adults

Latitude 41.86°N & Longitude – 73.95°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: 95% Forested; 5% Beach

Sampling Site: sloping beach area covered with vegetation below rocky shallow,

Shoreline: 30% Muddy, 70% Rocky

River Bottom: weedy, rocky

Water: Calm

Plants in the Water: 40% Milfoil

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature-</i>	11:00 AM	16°C	61°F		
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 1-3 knots	<i>Beaufort</i> 1	<i>Direction</i> SE	
<i>Weather today</i>	11:00 AM	>75% cloud cover	No Rain		
<i>Weather the past 3 days:</i>	No precipitation, low winds, temperature 16-20°C				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	10:55 AM 11:10 AM 11:32 AM	Rising Rising		5.5 cm 7.2 cm 11.1 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:30 AM 11:30 AM 12:00 PM	7.5 9.8	NR NR	NR NR	Slack Flood Flood
<i>Water Temperature-</i>	10:52 AM	16°C	60°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:52 AM	29 cm			
Chemical					
<i>Salinity-LR Quantabs</i>	10:52 AM	1.5* quantab reading (expect between 1.4 and 1.6 as there is no 1.5)	29 ppm to 36 ppm Cl-	52 to 65 ppm	
<i>Standardized Salinity – LR Quantabs</i>	10:55 AM	1.4 quantab reading	36 ppm Cl-	52 ppm	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i> 11:40 AM	<i>Temp</i> 16°C	<i>ppm DO</i> 10 ppm	<i>% saturation</i> 100%	
<i>pH – Color Match Kit</i>	10:52 AM	7.5			
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
Biological-					

<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
7 hauls	10	Herring sp.	2.5 cm	1 cm	
	3	Common Carp	4 cm		
	4	Banded Killifish	2 cm		
	4	Striped Bass	3 cm		
	1	Pumpkinseed	3 cm		
	1	White Perch	7 cm		
Fish Totals	TOTAL: 23	Diversity: 7			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	7	Blue Crab	3.5 cm	1 cm	
Macroinvertebrate Totals	TOTAL: 7	Diversity: 1			
<i>Sediment Core – NR</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
<i>Boats-</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	10:34 AM	Little Rip	White	Southbound	NR
Recreational					