Day in the Life of the Hudson River 10/05/2023 **Esopus Meadows Preserve, Ulster County, NY RIVER MILE: 87**

Salt Front: ~ *RM 52*

Kingston High School-Sophia Sagan

Clearwater- Eli Schloss 19 students, 9th-12th grade, 5 adults Latitude 41.868266°N & Longitude -73.950724°W

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

Surrounding Land Use: 90% Forested& 10% Beach

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

Shoreline: Muddy & Rocky

Water: Calm

River Bottom: Muddy & Weedy

Plants in the water: 20% Water Milfoil

*NR = Not read/recorded

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ITEM	Time	Time Reading						Comments	
44	11.00		2100		Physical	5 00 5			
Air Temperature			21 ° C		70° F				
Wind Speed:			Anemometer			Beaufort		Direction	
	11:22 AM		7-10 knots			3		East/Southeast	
Weather today	10:52	26-50%	Clou	d Cover	No Rain				
Weather the past 3	Sunny and warm								
days:			T						
Tides-	Time		Rising, Falling, Unchanged		Height (cm)				
	10:52 AM		Falling		48.25 cm				
	11:22 AM 11:38 AM		Falling			40.64 cm			
			Falling Cm/sec Knots			38.1 cm			
Current-	Time	Time			Knots	North/South	!	Ebb/Flood/Slack	
	11:22	4M						Slack	
	11:38	AΜ						Slack	
Water Temperature-	11:58 AM		21°C			70°F			
Turbidity- Long Sight Tube (120 cm)	11:58 AM		28 cm						
	•				Chemical				
Standardized Salinity- Low		1:30	1:30 PM		ow Detecti	ion			
Range Quantabs									
Student Salinity- High Range Quantabs		1:00	:00 PM		opm Cl ⁻		54 ppm Salinity	Total	
DO – Hach Drop Count Kit		Time		Тетр			ppm DO		% saturation
•		12:05	:05 PM		C		7 ppm		83%
pH – Color Match Kit 12		12:11	1 PM 7.5						
				Ì	Biologica	l			
Fish-Seine (9 Hauls) N		Num	umber		Name		Length of longest		Notes
11:00 AM-12:00 PM			1		American Eel		12 cm		
			4	YOY Herring sp.		<4 cm			
			1	Banded Killifish			5 cm		
			1	White Perch			10 cm		
			12		Pumpkinseed		13 cm		
			6	Bluegill			8 cm		

	2 18	Largemouth Bass Tessellated Darter			8 cm 5 cm	
Fish Totals	TOTAL: 45	Diversity: 8				
Macroinvertebrates	Number	Name			Length of longest	
	12	Blue Crab			12 cm	
Macroinvertebrate Totals	TOTAL:	Diversity:				
Sediment Core -NR	Time	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features

Boats								
Commercial/Recreational Ti		Name	Color	Southbound/Northbound	Light/Loaded			
Commercial	11:38 AM	Rip Van Winkle	White	Southbound				