

Day in the Life of the Hudson River 10/05/2023
Falling Waters, Glasco, Ulster County, NY
RIVER MILE: 100.5
Salt Front: ~ RM 52
Saugerties High School-Brian Robinson
18 students, 11th & 12th grade, 2 adults
Latitude 42.049215°N & Longitude -73.938933°W

Location: Falling Waters Protected Area, South Cove, Glasco, Ulster County, NY.

Surrounding Land Use: 100% Forested

Sampling Site: Parkland, beach covered in vegetation, concrete bulkhead

Shoreline : 100% Sandy

Water : Calm; 200 cm deep

River Bottom: 100% Sandy

Plants in the water: No Plants in water

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	8:10 AM	16 ° C	60 ° F	
<i>Wind Speed:</i>	8:13 AM	<i>Anemometer</i> 2 mph	<i>Beaufort</i>	<i>Direction</i>
<i>Weather today</i>	8:15 AM	26-50% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Unusually warm and sunny for this time of year			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Slack</i>
<i>Water Temperature-</i>	8:12 AM 8:32 AM	18.5 °C 18.3°C	65°F 64°F	
<i>Turbidity- NR</i>				
Chemical				
<i>Standardized Salinity- Low Range Quantab</i>	8:15 AM	Below Detection		
<i>Student Salinity- Low Range Quantabs</i>	8:15 AM	30 ppm Cl ⁻		
<i>DO – Meter/Probe</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	8:15 AM	18.5 °C	9.6	100%
<i>pH – Color Match Kit</i>	8:16 AM 8:20 AM	8 7.5		
<i>Nitrates-</i>	8:19 AM	39.6 mg/L*		*well beyond an expected range
Biological				
<i>Fish- Seine (3 Hauls)</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>
8:15-8:40 AM	2 2 15 3 3	American Eel Spottail Shiner Banded Killifish Striped Bass Bluegill		
Fish Totals	TOTAL: 25	Diversity: 5		

<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>			<i>Length of longest</i>	
	1	Blue Crab				
Macroinvertebrate Totals	TOTAL: 1	Diversity: 1				
<i>Sediment Core -NR</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats-NR

Commercial/Recreational	Time	Name	Color	Southbound/Northbound	Light/Loaded