

Day in the Life of the Hudson River 10/05/2023
Ernest R. Lasher Memorial Park, Germantown, NY

RIVER MILE:

Salt Front: ~ RM 52

Hudson High School-Jim McDarby

Columbia Land Conservancy-Jenifer Rosete

24 students, 9th-12th grade, 14 adults

Latitude 42.15836°N & Longitude -73.88655°W



Location: Ernest R. Lasher Memorial Park, Germantown, NY

Surrounding Land Use: 25% Urban/Residential, 50% Forested, 15% Beach & 10% Industrial/Commercial

Sampling Site: Park with mowed lawn, some rip rap in area, expansive mud flats during low tide, parking lot nearby, dock with a wooden bulkhead

Shoreline: 30% Sandy, 40% Muddy & 30% Rocky

Water : NR

River Bottom: Muddy, Sandy, Weedy & Rocky

Plants in the water: 20% Water Chestnuts, 15% Vallisneria, 30% Duck weed, 30% Chairmaker's bush & 5% Spatterdock

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	9:45 AM 11:00 AM 12:40 PM	21° C 27.1° C 25° C	69.8° F 80.78° F 77° F		
<i>Wind Speed:</i>	10:55 AM	<i>Anemometer</i>	<i>Beaufort</i> 4	<i>Direction</i> South	
<i>Weather today</i>	10:57 AM	26-50% Cloud Cover	No Rain		
<i>Weather the past 3 days:</i>	Sunny, unseasonable warm				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>		
	8:59 AM 10:02 AM 10:48 AM 11:47 AM	- Falling Falling Falling	75 cm 55 cm 48 cm 15 cm		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	9:27 AM 12:24 PM	15.24 6.77	0.296 0.132		Ebb Ebb
<i>Water Temperature-</i>	8:55 AM 10:10 AM 11:44 AM	20°C 19.7°C 20°C	68°F 67.5°F 68°F		

Turbidity- Secchi Disk (cm)	10:46 AM	63.5 cm				
Chemical						
Student Salinity- Low Range Quantabs	11:44 AM	30 ppm Cl ⁻	54 ppm Total Salinity			
DO – Hach Drop Count Kit	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	11:44 AM	20°C	8 ppm	86%		
pH – Color Match Kit	9:15 AM 10:10 AM 11:44 AM	8.5 8.5 8.5				
Biological						
Fish-Seine (10 hauls)	Number	Name	Length of longest	Notes		
9:15 AM-12:19 PM	5 3 2 2 1 10 4 1 1 1	Herring sp. Alewife Atlantic Menhaden Spottail Shiner White Catfish Banded Killifish White Perch Striped Bass Pumpkinseed Darter spp.	7 cm 9 cm 4.5 cm 3 cm 6 cm 4 cm 15 cm 5.5 cm 3.8 cm 2.5 cm			
Fish Totals	TOTAL: 30	Diversity: 10				
Macroinvertebrates	Number	Name	Length of longest			
	14	Blue Crab (M) Amphipods	2.5 cm			
Macroinvertebrate Totals	TOTAL: 14	Diversity: 2				
Sediment Core -NR	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats					
Commercial/Recreational	Time	Name	Color	Southbound/Northbound	Light/Loaded
Commercial	12:17 PM		White	Southbound	
Commercial	12:36 PM	Yacht	White		