

Day in the Life of the Hudson River 10/05/2023

Norrie Point, Staatsburg, NY

RIVER MILE: 84.5

Salt Front: ~ RM 52

Poughkeepsie High School- Nicole Vilardi

F.D. Roosevelt High School- Glen Burger

Bard College- Caroline Ramaley

NYSDEC- Maija Niemisto

33 students, 11th-12th grade, 8 adults

Latitude 41.83242°N & Longitude -73.94129°W



Location: Norrie Cove and Southwest corner of Norrie Point Environmental Center Patio, Norrie Point, Staatsburg, Dutchess County, NY.

Surrounding Land Use: 90% Forested & 10% Parking lot & environmental center

Sampling Site: Front banks altered, rip rap. Cove is very muddy with some riprap and west side is rocky. Beach area, shore with bulkhead, shoreline rip rap, banks altered for building, riprap along RR tracks, collected wood and debris in shallow cove, pipe entering river area.

Shoreline: Muddy & Rocky


Water: Calm

River Bottom: Muddy

Plants in the water: No Plants in the water, water chestnuts gone!

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:19 AM	25° C	77° F	
	11:10 AM	27° C	81° F	
	12:56 PM	24° C	75° F	
<i>Wind Speed:</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i> Southeast
	11:10 AM	0.9 m/s	1	
<i>Weather today</i>	11:00 AM	26-50% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Rainy			
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:19 AM	-	25.5 cm	
	11:10 AM	Falling	15.25 cm	
	12:30 PM	Falling	12.75 cm	

	12:56 PM	Rising			17.75 cm	
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack	
	10:19 AM 11:10 AM 12:30 PM 12:56 PM				Ebb Ebb Slack Flood	
Water Temperature-	10:19 AM 11:04 AM 12:25 PM	20°C 20°C 21°C	68°F 68°F 69.8°F		*Taken at 2 ft water depth	
Turbidity- Long Sight Tube (120 cm)	10:19 AM 11:04 AM 12:30 PM	41 cm 36 cm 22 cm				
Chemical						
Standardized Salinity-Low Range Quantabs	1:30 PM	Below Detection				
Student Salinity-Hydrometer	10:19 AM 11:05 AM 12:25 PM	0 ppt 0 ppt 0 ppt				
DO – Hach Drop Count Kit	Time	Temp	ppm DO	% saturation		
	10:19 AM 11:04 AM 12:30 PM	20 20 21	8 ppm 8 ppm 9 ppm	98% 100% 100%		
pH – Color Match Kit	10:19 AM 11:04 AM 12:25 PM	7.6 7.5 7.5				
Biological						
Fish- Seine (5 Hauls)	Number	Name	Length of longest	Notes		
10:00 AM-1:00 PM	2 72 77 2 2 5 1 5 10 11 1 2 8	Alewife American Shad Atlantic Menhaden Rudd Banded Killifish White Perch Striped Bass Sunfish sp. Pumpkinseed Bluegill Smallmouth Bass Largemouth Bass Tessellated Darter	7.4 cm 15 cm 15.24 cm 9.6 cm 6.9 cm 10.15 cm 12.7 cm 4.1 cm 12.75 cm 10.15 cm 10.15 cm 8.6 cm 6.6 cm	 Rudd		
Fish Totals	TOTAL: 198	Diversity: 13				
Macroinvertebrates	Number	Name	Length of longest			
	12	Blue Crab	6 cm			
Macroinvertebrate Totals	TOTAL: 12	Diversity: 1				
Sediment Core	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features
19.04 cm	11:04 AM	No	No	No	Abundant: Mud Common: Sand Rare: Gravel	Abundant: Living vegetation Common: Leaves Rare: Wood, Macroinvertebrates

Boats

Commercial/Recreational	Time	Type	Color	Southbound/Northbound	Light/Loaded
Recreational	10:16	Kayak	Orange	Northbound	
Recreational	10:26	Sailboat	White	Northbound	
Recreational	10:41	Sailboat	Blue	Southbound	
Recreational	10:41	Sailboat	White	Southbound	
Recreational	10:43	Kayak	Red	Southbound	
Recreational	10:48	Sailboat	-	Northbound	
Recreational	11:26	Sailboat	White	Northbound	
Recreational	12:34	Powerboat	-	Northbound	
Recreational	12:34	Powerboat	Blue	Southbound	
Recreational	1:13	Jetski	Black	Northbound	
Recreational	1:22	Speed Boat		Northbound	