

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

People’s Waterfront Park, Newburgh, NY

RIVER MILE: 60.5

Salt Front: ~RM 52

NFA-Joyce D’Imperio, and staff

Scenic Hudson-Anthony Coneski, and staff

50 students, 9th & 10th grade, 6 adults

Latitude 41.5041 N & Longitude –74.00478 W



Location: Newburgh Waterfront Park, Newburgh, Orange County, NY

Surrounding Land Use: 100% Urban/Residential

Sampling Site: Pier, dock with bulkheads, rip rap and wood bulkhead. Docking area for ferry service, shop along the waterfront.

Shoreline: Rocky & Muddy; Vegetation on banks, banks altered, rip rap

Water: NR

River Bottom: Muddy

Plants in the water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:39 AM 11:14 AM 12:21 PM 1:02 PM	21°C 24°C 26°C 26°C	70°F 75.2°F 78.8°F 78.8°F	
<i>Wind Speed:</i> <i>Wind speeds recorded are extremely high – gale force Beaufort scale and 53 mph winds and higher. Something is off</i>	10:34 AM 10:34 AM 11:10 AM 11:14 AM 12:24 PM 12:24 PM	<i>Anemometer</i> 68 knots* 10 mph 46 knots* 26 knots 30 knots 19 knots	<i>Beaufort</i> 10* 8* 6 6 5	<i>Direction</i> North North
<i>Weather today</i>	10:32 AM 11:14 AM 1:12 PM	<25% Cloud Cover 26-50% Cloud Cover <25% Cloud Cover	No Rain No Rain No Rain	
<i>Weather the past 3 days:</i>				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:20 AM 12:21 PM 1:00 PM	- Rising Rising	0 cm NR 45.72 cm	

<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	NR 11:09 AM 12:21 PM 1:00 PM	12.19 10.4 12.7 14.73			Flood Flood
<i>Water Temperature-</i>	10:25 AM 10:29 AM 12:20 AM 12:55 PM	20°C 20°C 21°C 21.5°C		68°F 68°F 69.8°F 70.7°F	
<i>Turbidity-</i>	10:45 AM 11:14 AM 12:24 PM 1:12 PM	66 cm 38 cm 72 cm 35 cm			

Chemical

<i>Standardized Salinity- Low Range Quantabs</i>	11:15 AM	39 ppm Cl ⁻	67 ppm total salinity	<i>Quantab Reading 1.6</i>
<i>DO – Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:29 AM 10:29 AM 12:20 PM 12:52 PM	20°C 20°C 21°C 21.5°C	10 ppm 9 ppm 10 ppm 10 ppm	
<i>pH – pH pen</i>	12:30 PM 12:52 PM	7.4 7		

Biological

<i>Fish-Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
	112 10 2 5 3	Herring sp. Striped Bass Bay Anchovy Spottail Shiner Banded Killifish	5 cm 8 cm			
Fish Totals	TOTAL: 132	Diversity: 5				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
<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