

Day in the Life of the Hudson River 10/05/2023
Long Dock Park, Beacon, NY
RIVER MILE: 61
Salt Front: ~RM 52
NFA P-Tech-Joyce D'Imperio and team
Scenic Hudson-Anthony Coneski and staff
50 students, 9th & 10th grade, 6 adults
Latitude 41.50312°N & Longitude -73.98696°W



Location: Long Dock Park, Beacon, Dutchess County, NY
Surrounding Land Use: 15% Forested, 5% Urban/Residential, 25% Beach, 5% River Bank
Sampling Site: Public park, pier with kayak launch, grassy and forested areas, wooden bulkhead, marshy, altered banks, parking lot, covered in vegetation
Shoreline: 75% Rocky, 5% Sandy, 20% Muddy
Water: Calm, 61 cm deep
River Bottom: Muddy & Rocky
Plants in the water: No Plants in water
 *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 11:10 AM 12:25 PM 12:57 PM	21°C 22°C 22.8°C 24°C	69.8°F 71.6°F 73°F 75°F	
<i>Wind Speed:</i>	10:22 AM 11:06 AM 12:27 PM 12:57 PM	<i>Anemometer</i> 6.5 mph 11.5 mph 10 mph 8 mph	<i>Beaufort</i> 2 3 3 3	<i>Direction</i> South South Southeast NR
<i>Weather today</i>	10:15 AM 11:05 AM 12:28 PM 12:57 PM	26-50% Cloud Cover 51-75% Cloud Cover <25% Cloud Cover <25% Cloud Cover	No Rain No Rain No Rain No Rain	
<i>Weather the past 3 days:</i>	Windy, warm, dry			
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:58 AM 11:05 AM	- Slack	10 cm 10 cm	

	12:21 PM	Rising	18 cm	
Current-	Time	Cm/sec	Knots	North/South
	10:38 AM	30.48		-
	11:22 AM	26.5		-
	11:22 AM	33.94		-
	12:40 PM	52		-
	1:10 PM	14.38		Flood
	1:10 PM	10.43		Flood
Water Temperature-	10:12 AM	20°C	68°F	
	10:22 AM	15°C	60°F	
	11:02 AM	20.5°C	68.9°F	
	12:22 PM	20°C	68°F	
	12:42 PM	22°C	71°F	
	12:50 PM	19°C	66°F	
	12:58 PM	22.5°C	72.5°F	
	NR	21°C	70°F	
Turbidity- Long Sight Tube (120 cm)	11:05 AM	75.2 cm	91 cm	Secchi Disk (cm)
	12:52 PM	23 cm		
	1:27 PM	56 cm		
Chemical				
Standardized Salinity- Low Range Quantabs reading #2.2	9:05 AM	60 ppm Cl ⁻	108 ppm TS	TS = Total Salinity
Student Salinity- Low Range Quantabs	10:40 AM	30 ppm Cl ⁻	54 ppm TS	
	11:25 AM	30 ppm Cl ⁻	54 ppm TS	
	12:39 PM	30 ppm Cl ⁻	54 ppm TS	
	12:50 PM	42 ppm Cl ⁻	76 ppm TS	
	1:20 PM	77 ppm Cl ⁻	139 ppm TS	
DO – Drop Count Kit	Time	Temp	ppm DO	% saturation
Likely an error - Expect air bubble or failure to swirl in solution	10:17 AM	20°C	15 ppm	
	10:22 AM	15°C	15 ppm*	
	11:02 AM	21°C	28 ppm*	
	11:30 AM	21°C	30 ppm*	
	12:20 PM	22°C	12 ppm	
	12:22 PM	18°C	12 ppm	
	12:22 PM	22°C	11 ppm	
	12:45 PM	19°C	11 ppm	
	12:57 PM	21°C	14 ppm*	
	12:58 PM	21°C	10 ppm	
pH –	Test Strips	Test Strips	Color Match Kit	Color Match Kit
	10:22 AM	7.45		
	10:43 AM	7.4		
	11:02 AM	7.8		
	11:30 AM	8.2	11:30 AM	8
	12:22 PM	7.1		
	12:36 PM	7.2	12:36 PM	7.2
	12:47 PM	7		
	12:58 PM	7.5	1:20 PM	7.4
Biological				
Fish-Seine	Number	Name	Length of longest	Notes
11:05 AM-1:14 PM	1	American Eel	19.5 cm	
	1	Striped Bass	6.4 cm	
	49	Blueback Herring	8.5 cm	
Fish Totals	TOTAL: 51	Diversity: 3		
Macroinvertebrates	Number	Name	Length of longest	

	3	Blue Crab (F)			2 cm	
Macroinvertebrate Totals	TOTAL: 3	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					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/Loaded
Commercial	11:10 AM		White	Southbound	Light
Commercial	11:11 AM		White	Southbound	Light
Commercial	11:14 AM		White	Northbound	Light
Recreational	11:24 AM		White	Northbound	Light
Recreational	12:10 PM	Yacht	White	Northbound	Light