

Day in the Life of the Hudson River 10/05/2023
Bowline Park, Haverstraw, NY
RIVER MILE: 37
Salt Front: ~ 52
North Rockland High School-Jeanne Maguire
SCA & DEC fisheries
80 students, 11th & 12th grade, 6 adults
Latitude 41.20314°N & Longitude -73.95765°W



Location: Bowline Park, Haverstraw, Rockland County, NY
Surrounding Land Use: 25% Urban/Residential, 50% Industrial/Commercial, 25% Park
Sampling Site: Pier, small beach with altered banks, large rip rap, grassy, parking lot nearby
Shoreline: Sandy & Rocky
Water: Calm
River Bottom: Rocky
Plants in the water: No plants in the water
 *NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	9:10 AM	19.4° C	67° F	
	9:30 AM	20° C	68° F	
	10:08 AM	20° C	68° F	
	10:42 AM	22° C	71.6° F	
<i>Wind Speed:</i>	9:09 AM	<i>Anemometer</i> 0.8 knots	<i>Beaufort</i>	<i>Direction</i> North
	9:29 AM	1 knot		North
	9:56 AM	3.8 m/s		North
	10:43 AM	2.5 knots, 1.15 mph		North
<i>Weather today</i>	9:10 AM	>75% Cloud Cover		
	9:58 AM	51-75% Cloud Cover		
	10:20 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	High Temperatures but clear			
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	9:16 AM	-	60 cm	
	9:36 AM	Rising	62 cm	
	10:03 AM	Rising	63 cm	
	10:49 AM	Rising	77 cm	

<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>	
	9:26 AM 9:30 AM 9:50 AM 10:05 AM 10:39 AM	6.13 5.4 9 16.25 9.8	0.119 0.105 0.175 0.32 0.19		Ebb Ebb Flood Flood Ebb	
<i>Water Temperature-</i>	9:25 AM 9:48 AM 10:18 AM 10:48 AM	20°C 20.75°C 20.5°C 21.1°C		69°F 69.5°F 68.5°F 70°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	9:05 AM 9:27 AM 9:29 AM 9:52 AM 9:59 AM 10:02 AM 10:19 AM 10:20 AM 10:36 AM 10:42 AM	27.3 cm 25.3 cm 30.6 cm 26.3 cm 22.7 cm 22 cm 21.13 cm 49 cm 25.3 cm 31 cm				
Chemical						
<i>Standardized Salinity- High Range Quantabs – 4.8 qt units</i>	11:15 AM	1,020 ppm Cl ⁻		1,843 ppm (Total Salinity)	1.8 ppt	
<i>Student Salinity- High Range Quantabs - 4.8 qt units</i>	9:01 AM 9:40 AM 10:19 AM	1,020 ppm Cl ⁻ 1,020 ppm Cl ⁻ 1,020 ppm Cl ⁻		1,843 ppm TS 1,843 ppm TS 1,843 ppm TS	1.8 ppt 1.8 ppt 1.8 ppt	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>	
	9:28 AM 9:48 AM 10:18 AM 10:57 AM	20.6°C 20.5°C 20°C 21.1°C		5 ppm 6 ppm 6 ppm 8 ppm	58% 65% 65%	
<i>pH – Color Match Kit</i>	9:07 AM 9:28 AM 9:50 AM 9:53 AM 10:24 AM 10:58 AM	7.4 7.2 7.2 7 7.2 7.3				
Biological						
<i>Fish-Seine</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	<i>Notes</i>	
9:00 AM-10:55 AM	1 11 3 2	American Eel Atlantic Silverside White Perch Striped Bass		16 cm 9.5 cm 18 cm 6.3 cm		
Fish Totals	TOTAL: 17	Diversity: 4				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>		
	2	Blue Crab (F)		2 cm		
Macroinvertebrate Totals	TOTAL: 2	Diversity: 1				
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>
100 cm		No	No	No	Abundant: gravel & pebbles Common: mud & sand Rare: clay	Common/rare: brick

Boats

Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	9:10	Ferry	White/Black	Southbound	Loaded
Commercial	9:36		Brown	Stationary	Loaded
Commercial	9:48		White	Northbound	Light
Commercial	9:49		Black	Southbound	Loaded
Commercial	10:37	Barge	Black	Southbound	Loaded
Recreational	9:54	Speedboat	Black	Eastbound	Light
Recreational	10:03	Sailboat	White	Northbound	Light
Recreational	10:14	Sailboat	White	Southbound	Light
Recreational	10:36	Sailboat	White	Southbound	Light
Recreational	10:39		White	Southbound	Light
Recreational	10:39	Power Boat	White	Southbound	Light