

**Day in the Life of the Hudson River 10/05/2023**  
**Haverstraw Bay Park, Haverstraw, NY**  
**RIVER MILE: 38**  
*Salt Front: ~ 52*  
**Albertus Magnus High School-Millie Mendelson**  
**Members of SCA**  
**Rockland County Parks Staff**  
**30 students, 11<sup>th</sup>-12<sup>th</sup> grade, 5 adults**  
**Latitude 41.212559°N & Longitude -73.963759°W**



**Location:** Haverstraw Bay Park, Haverstraw, Rockland County, NY  
**Surrounding Land Use:** 60% Urban/Residential, 30% Industrial/Commercial, 5% Beach  
**Sampling Site:** Small beach, banks altered, large rip rap, boat launch, bulkhead, concrete bulkhead, covered in vegetation, grassy area, parking lot adjacent.  
**Shoreline:** 40% Sandy, 20% Muddy & 40% Rocky  
**Water:** NR  
**River Bottom:** Muddy, Sandy & Rocky  
**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>	11:05 AM	21.11 °C	70° F		
	11:23 AM	21.67 °C	71° F		
	12:55 PM	25.56 °C	78° F		
<i>Wind Speed:</i>	10:44 AM	<i>Anemometer</i> 4-6 mph	<i>Beaufort</i> 2	<i>Direction</i> Southeast	
<i>Weather today</i>	11:08 AM	26-50% Cloud Cover	Drizzle		
<i>Weather the past 3 days:</i>	Warm, humid, sunny				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	11:08 AM	Rising		336.6 cm	
	12:25 PM	Falling		302.6 cm	
	1:04 PM	Falling		292.1 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	10:35 AM	2.71			
	10:47 AM	3.4			
	12:32 PM	11.55			Flood
<i>Water Temperature-</i>	10:25 AM	20.8°C		69.44°F	

	11:04 AM 12:13 PM 12:47 PM	20.7°C 22.8°C 22.8°C	69.26°F 73.04°F 73.04°F			
<b>Turbidity- Long Sight Tube (120 cm) -</b> Each reading is an average of 3	11:00 AM 12:10 PM 12:45 PM	46.6 cm avg 38.5 cm avg 12.8 cm avg	39.8 – 49.6 – 50.4 cm 38.4 – 36.2 – 41 cm 10.4 – 15.8 – 12.8 cm (boat? Or wind impact?)			
<b>Chemical</b>						
<b>Standardized Salinity- High Range Quantabs</b>	10:32 AM	1,107 ppm Cl <sup>-</sup> /5.0 qt units	2,000 ppm (total salinity)	2.0 ppt TS		
<b>Student Salinity- High Range Quantabs</b>	10:40 AM 11:18 AM 12:59 PM	1,296 ppm Cl <sup>-</sup> /5.4 qt units 1,020 ppm Cl <sup>-</sup> /4.8 qt units 939 ppm Cl <sup>-</sup> / 4.6 qt units	2431 ppm TS 1843 ppm TS 1696 ppm TS	2.4 ppt TS 1.8 ppt TS 1.7 ppt TS		
<b>DO – Hach Drop Count Kit</b>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	10:45 AM 10:48 AM 11:18 AM 11:47 AM 12:29 PM 12:47 PM	20.8 20.8 20.7 20.7 22.8 22.8	11 ppm 13 ppm 9 ppm 9 ppm 12 ppm 11 ppm	120% 142% 100% 100% 128% 122%		
<b>pH – Color Match Kit</b>	10:33 AM 10:36 AM 11:09 AM 11:13 AM 12:22 PM 12:50 PM 12:57 PM	7 7.5 7.4 7.4 7.8 7.6 7.6				
<b>Biological</b>						
<b>Fish- Seine</b>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Smallest</i>		
10:28 AM-12:50 PM	128 6 3	Atlantic Silverside Striped Bass White Perch	8.5 cm 6 cm 20 cm	8.0 smallest		
<b>Fish Totals</b>	<b>TOTAL: 137</b>	<b>Diversity: 3</b>				
<b>Macroinvertebrates</b>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 0</b>	<b>Diversity: 0</b>				
<b>Sediment Core -NR</b>	<i>Time</i>	<i>Oxid Top</i>	<i>H<sub>2</sub>S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

<b>Boats</b>					
<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Type</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/ Loaded</b>
Commercial	11:41	Barge	Red	Northbound	Loaded
Commercial	10:37	Tugboat	White	Northbound	Loaded
Commercial	11:15	Barge	Black	Northbound	Loaded
Recreational	10:02	Sailboat	White	Southbound	Light
Recreational	10:11	Speedboat	White	Southbound	Light
Recreational	12:20	Yacht	White	Southbound	Light
Recreational	12:42	Yacht	White	Northbound	Light