

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

George's Island, Montrose, NY

**RIVER MILE: 40**

*Salt Front: ~ 52*

**Fox Meadow Elementary/Scarsdale-Alethea Lynch**

**80 students, 3<sup>rd</sup> grade, 40 adults**

**Latitude 41.24927°N & Longitude -73.96431°W**

**Location:** George's Island Waterfront Park, Montrose, Westchester County, NY

**Surrounding Land Use:** Park, 30% Industrial & 30% Commercial,

**Sampling Site:** Park, picnic area boat launch, beach, rip rap, & concrete bulkhead

**Shoreline:** Covered with brick pieces, behind is forested, grassy area with parking area.

**Water:** NR

**River Bottom:** NR

**Plants in the water:** NR

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>			<i>Comments</i>
<b>Physical</b>					
<i>Air Temperature</i>	11:15 AM	21° C		71° F	
<i>Wind Speed:</i>		<i>Anemometer</i>		<i>Beaufort</i>	<i>Direction</i>
	11:17 AM	0 mph		0	
<i>Weather today</i>	11:15 AM	<25% Cloud Cover		No Rain	
<i>Weather the past 3 days:</i>	Heavy Rain				
<i>Tides- Dock to water's surface</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:10 AM-1:57 PM	Rising		63.5 cm 7.6 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	10:10 AM 12:23 PM 1:34 PM				Flood Flood Flood
<i>Water Temperature-</i>	11:03 AM	21°C		70°F	
<i>Turbidity- Secchi Disk (cm)</i>	10:57 AM	104 cm			
<b>Chemical</b>					
<i>Standardized Salinity- High Range Quantabs</i>	10:30 AM	939ppm Cl- 863ppm Cl-	1,696 ppm TS 1,559 ppm TS	1.7 ppt TS 1.6 ppt TS	<i>Read 4.6 LDEO</i> <i>Read 4.4 Norrie</i>
<i>Student Salinity- Hydrometer</i>	11:21 AM			0 ppt	
<i>DO – Lamotte Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	11:02 AM	21°C		5 ppm	
<i>pH – Color Match Kit</i>	11:02 AM	6			
<i>Nitrates- kit not noted but wonder if Lamotte estuary wide kit which reads high?</i>	11:07 AM	5 mg/L			* pretty high reading?
<b>Biological</b>					
<i>Fish- Seine (20 Hauls)</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	<i>Notes</i>
10:40 AM-1:00 PM	3	American Eel		12 cm	
	5	Atlantic Silverside		7 cm	
	2	Striped Bass		7 cm	
	1	Hogchoker		6.5 cm	
<b>Fish Totals</b>	<b>TOTAL: 11</b>	<b>Diversity: 4</b>			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	

	3	Blue Crab				
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 3</b>	<b>Diversity: 1</b>				
<i>Sediment Core -NR</i>	<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>

**Boats-NR**

<b>Commercial/Recreational</b>	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>Southbound/Northbound</b>	<b>Light/Loaded</b>