

**Day in the Life of the Hudson River 10/05/2023**  
**Kinnally Cove, Hastings-on-Hudson, NY**  
**RIVER MILE: 22**



*Salt Front: ~ 52*

**Hastings High School-Marc Zelmanowicz**  
**43 students, 11<sup>th</sup>-12<sup>th</sup> grade, 3 adults**  
**Latitude 40.99776°N & Longitude -73.88523°W**



**Location:** Kinnally Cove, MacEachron Park, Hastings-on-Hudson, Westchester County, NY

**Surrounding Land Use:** 100% Industrial/Commercial

**Sampling Site:** Beach with altered banks, riprap on shoreline, bulkhead, grassy area

**Shoreline:** Sandy

**Water:** Calm

**River Bottom:** Muddy

**Plants in the water:** No Plants in the water

\*NR = Not read/recorded

**NOTE: Spotted Lantern Fly noted in sampling area**

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>			
<i>Air Temperature</i>	10:20 AM	19° C	66.2° F
<i>Wind Speed:</i>	10:28 AM	<i>Anemometer</i> 1.5 mph	<i>Beaufort</i> 1
<i>Weather today</i>	10:30 AM	<25% Cloud Cover	<i>Direction</i>
<i>Weather the past 3</i>	Warmer than usual		

<i>days:</i>					
<b>Tides- NR</b>	<b>Time</b>	<b>Rising, Falling, Unchanged</b>		<b>Height (cm)</b>	
<b>Current-</b>	<b>Time</b>	<b>Cm/sec</b>	<b>Knots</b>	<b>North/South</b>	<b>Ebb/Flood/Slack</b>
	10:30 AM 1:30 PM	20.8 7.79	0.4047 0.15		Ebb Flood
<b>Water Temperature-</b>	12:30 PM 2:20 PM	20°C 22°C		68°F 71.6°F	
<b>Turbidity- Long Sight Tube (120 cm)</b>	9:20 AM 10:00 AM	57 cm 47.25 cm			

**Chemical**

<b>Standardized Salinity- High Range Quantabs- 5.8 QT units</b>	12:55 PM	5,138 ppm total salinity	5.1 ppt TS	2844 ppm Cl-
<b>Student Salinity- Hydrometer Refractometer</b>	10:20 AM 10:40 AM	6,500 ppm 6,000 ppm	6.5 ppt 6 ppt	
<b>DO – Hach Drop Count Kit</b>	<b>Time</b>	<b>Temp</b>	<b>ppm DO</b>	<b>% saturation</b>
	1:30 PM	22°C	9 ppm	96.25%
<b>pH – Color Match Kit</b>	10:30 AM 1:20 PM	6.5 6.7		
<b>Nitrates-</b>	10:40 AM	4.4 ppm*		* high reading
<b>Phosphates-</b>	10:40 AM	0.5 ppm		

**Biological**

<b>Fish- Seine (8 Hauls)</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Notes</b>		
8:30 AM-2:30 PM	4 12 1 1	White Perch Atlantic Silverside Black Drum Striped Bass	23 cm 8 cm 20 cm 6 cm			
<b>Fish Totals</b>	<b>TOTAL: 18</b>	<b>Diversity: 4</b>				
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 0</b>	<b>Diversity: 0</b>				
<b>Sediment Core -NR</b>	<b>Time</b>	<b>Oxid Top</b>	<b>H<sub>2</sub>S Smell</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>

**Boats**

<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Type</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/ Loaded</b>
Commercial	10:10	Barge	Red/Orange	Northbound	Loaded
Commercial	10:12	Trash Barge	Blue	Southbound	Loaded