

**Day in the Life of the Hudson River 10/13/22**

**Henry Hudson Riverfront Park, Hudson, NY**

**RIVER MILE: 117**

*Salt Front: ~ RM 76*

*Clearwater Chloe Grey Smith & crew*

**Chatham High School– Sandi Fischer - 36 students & 9 adults**

**Latitude 42.25369°N & Longitude – 73.79935°W**



**Location:** Henry Hudson Riverfront Park, Hudson, NY & on Clearwater Boat

**Area:** Inlet by the parking lot at the boat ramp on the north end of the park

**Sampling Site:** Altered banks, ripraps (large rocks), covered vegetation

**Surrounding Land Uses:** Urban/Residential; Industrial/Commercial; Forested

**Shoreline:** 100% Rocky

**River Bottom:** Muddy

**Water:** Calm

**Plants in the Water:** duckweed and water chestnuts

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature-</i>	9:33 AM	17.2°C	63°F	
<i>Wind Speed:</i>	10:00 Am	<i>Anemometer</i> 5 mph	<i>Beaufort</i> 2	<i>Direction</i> S/SW
<i>Weather today</i>	9:30 AM	>75% cloud cover	Start & Stop Rain	
<i>Weather the past 3 days:</i>	Overcast & relatively warm for the time of year-50s and 60s- light wind but heavier than the day before out of the south; some showers on 10/11			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
	9:35 AM	Falling		51.8 cm
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Still</i>
<i>Water Temperature-</i>	11:15 AM	15°C	59°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:48 AM	71.5 cm		
<i>Chemical</i>				
<i>Salinity-LR Quantab</i>	10:09 AM	52 ppm	1.4 quantab reading	29 ppm Cl-
<i>Standardized Salinity – LR Quantabs</i>	5:04 PM	92 ppm	2.0 quantab reading	51 ppm Cl-
<i>DO – Hach Drop Count Kit</i>	<i>Time</i> 10:55 AM	<i>Temp</i> 15°C	<i>ppm DO</i> 11 ppm	<i>% saturation</i> 110%
<i>pH – Color Match Kit</i>	10:01 AM	7.5		
<i>Nitrates- NR</i>				
<i>Phosphates- NR</i>				
<i>Alkalinity- NR</i>				

<i>Biological-</i>					
<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<i>8:00 AM-9:45 AM – 3 hauls</i>	1	Pumpkinseed	13 cm		
<b>Fish Totals</b>	<b>TOTAL: 1</b>	<b>Diversity: 1</b>			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 0</b>	<b>Diversity:0</b>			
<i>Sediment Core – NR</i>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<i>Boats-</i>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial	9:40 AM	Barge	Red, black & turquoise	Southbound	Light
	9:52 AM	Cruise Ship	White	Southbound	Light
	11:44 AM	Barge	Yellow and red	Southbound	Light
Recreational	10:50 AM	Sailboat	White	Southbound	NR
	11:45 AM	Powerboat	Blue	Northbound	NR