

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

Inwood Marina, Manhattan, NY

RIVER MILE: 12.75

Salt Front: ~ 52

Comprehensive Model School-Carolina Castro

New York City Urban Park Rangers

45 students, 9th –10th grade, 8 adults

Latitude 40.869747°N & Longitude –73.931983°W

Location: Inwood Hill Park, Dyckman St. Fishing Pier, Hudson River, Manhattan, NY

Surrounding Land Use: 10% Forested, 30% Industrial/Commercial, 10% Beach, 50% Public Area

Sampling Site: Pier, Forested & Grassy Area, Rip Rap on shoreline, Parking lot

Shoreline: 70% Sandy, 10% Muddy, 20% Rocky

Water: Calm

River Bottom: Sandy

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>
Physical				
<i>Air Temperature-NR</i>		° C	° F	
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>
<i>Weather today</i>	11:00 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Sunny, No Rain			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:30 AM	-	81.87 cm	
	11:00 AM	Rising	92 cm	
	11:30 AM	Rising	104 cm	
	12:00 PM	Rising	118 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	10:45 AM	9.09	0.17	
	11:24 AM	16.28	0.32	Flood
	12:26 PM	11.8	0.23	Flood
	12:26 PM	42.37	0.82	Flood
	12:30 PM	15.57	0.3	Flood
<i>Water Temperature-</i>	11:00 AM	19°C	66.2°F	
	11:00 AM	21°C	69.8°F	
	11:30 AM	23°C	73.4°F	
	12:00 PM	23°C	73.4°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	11:10 AM	64.3 cm		
	11:10 AM	65 cm		
	11:30 AM	70.3 cm		
	12:27 PM	75.7 cm		
Chemical				
<i>Standardized Salinity- High Range Quantabs – 8.0 QT units</i>	12:00 PM	6,670 ppm	6.7 ppt	3692 ppm Cl-
<i>Student Salinity- Hydrometer</i>	12:02 PM	8,000 ppm	8 ppt	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:00 AM	19°C	5 ppm	50%
	12:00 PM	20°C	5 ppm	
<i>pH – Color Match Test Kit</i>	11:14 AM	7.25		
Biological				

<i>Fish-Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
11:00-11:30 AM	7 1	Atlantic Silverside Striped Bass	7.5 cm			
Fish Totals	TOTAL: 8	Diversity: 2				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
	1 2	Blue Crab Asian Shore Crab	2.5 cm			
Macroinvertebrate Totals	TOTAL: 3	Diversity: 2				
<i>Sediment Core -NR</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	NR	NR	White	Southbound	NR
Commercial	11:26	NR	NR	Southbound	NR