

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

Morris Canal Basin, Jersey City, NJ

RIVER MILE: 0.5

Salt Front: ~ 52

Hudson Montessori School-Grace Sanvictores & team
Liberty State Park NJDEP- Ray Baylon & Sarajane Bruno

58 students, 1st-8th grade, 9 adults

Latitude 40.707725°N & Longitude -74.03447°W



Location: Morris Canal Basin, Jersey City, NJ

Surrounding Land Use: Urban/Residential, Industrial/Commercial

Sampling Site: Pier, Rip Rap, Concrete Bulkhead

Shoreline: Sandy & Rocky

Water: Calm

River Bottom: Muddy & 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</i>	11:00 AM	24°C	75°F	
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 6 mph	<i>Beaufort</i> 1	<i>Direction</i> South
<i>Weather today</i>	11:00 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Average of 80s, clear skies, warmer temperatures at this time of the year			
<i>Tides- Dock to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
	10:20 AM-10:35 AM	Rising		106.68 cm 121 cm
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	11:05 AM	7	0.15	Ebb
<i>Water Temperature-</i>	10:15 AM	22°C	71.3°F	
	NR	25°C	77°F	
	NR	25°C	77°F	
	NR	24.5°C	76°F	
<i>Turbidity- Secchi Disk (cm)</i>	11:00 AM	80 cm		
		75 cm		
Chemical				
<i>Standardized Salinity- Refractometer</i>	11:00 AM	11,000 ppm	11 ppt	
<i>Student Salinity- Refractometer/Hydrometer</i>	10:10 AM	12,000 ppm	12 ppt	
	10:12 AM	12,000 ppm	12 ppt	
	10:15 AM	11,000 ppm	11 ppt	

DO – Hach Drop Count Kit	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	10:20 AM	22°C	9 ppm	110%		
pH – Color Match Test Kit	11:00 AM	7.8				
Biological						
Fish-Traps	Number	Name	Length of longest	Notes		
Fish Totals	TOTAL: 0	Diversity: 0				
Macroinvertebrates	Number	Name	Length of longest			
9:30-11:30 AM	9	Asian Shore Crabs	6 cm			
	1	Blue Crab	15.24 cm			
Macroinvertebrate Totals	TOTAL: 10	Diversity: 2				
Sediment Core -NR	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	10:15		Black & White	Eastbound	Loaded
Recreational	10:00	Ferry	Yellow	Southbound	Loaded
Recreational	10:30	Ferry	Yellow	Northbound	Loaded