

Day in the Life of the Hudson River 10/05/2023
Shirley Chisholm State Park, Jamaica Bay
RIVER MILE: -3.75
Salt Front: ~ RM52
PS 377Q- Jean Williams
New York State Parks-Ciara Scully
60 students, 5th grade, 6 adults
Latitude 40.638846°N & Longitude -73.69822°W

Location: Shirley Chisholm State Park, Jamaica Bay
Surrounding Land Use: 90% Urban/Residential & 10% Beach
Sampling Site: Marshy Beach with Rip Rap
Shoreline: 90% Sandy & 10% Rocky
Water: Calm
River Bottom: Muddy & Rocky
Plants in the water: 20% Seaweed & 10% Spartina
*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	10:50 AM	21.68 °C	71 °F	
<i>Wind Speed:</i>	10:47 AM	<i>Anemometer</i> 1.5 mph	<i>Beaufort</i> 2	<i>Direction</i> East
<i>Weather today</i>	11:12 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	No Rain in the last 3 days, but extreme rain in the last week			
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:45 AM 11:40 AM	- Rising	38 cm 47 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	11:06 AM	7.57	0.14	Flood
<i>Water Temperature-</i>	10:36 AM 10:36 AM 11:00 AM 11:26 AM	21°C 22°C 21°C 22°C	69.8°F 71.6°F 69.8°F 71.6°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	11:27 AM	63.3 cm		
Chemical				
<i>Standardized Salinity- Refractometer</i>	12:22 PM	26,000 ppm	26 ppt	
<i>Student Salinity- Hydrometer</i>	10:45 AM 10:45 AM 11:00 AM 11:26 AM	22,500 ppm 23,000 ppm 22,000 ppm 23,000 ppm	22.5 ppt 23 ppt 22 ppt 23 ppt	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:36 AM 10:36 AM 11:00 AM	21°C 22°C 21°C	8 ppm 8.5 ppm 9 ppm	90% 95% 100%
<i>pH – Color Match Test Kit</i>	10:50 AM	8		
Biological				
<i>Fish- Seine (3 Hauls)</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>

10:40-11:30 AM	57 26 19	Striped Killifish Atlantic Silverside Mummichog				
Fish Totals	TOTAL: 102	Diversity: 3				
Macroinvertebrates	Number	Name	Length of longest			
	35 4 6 3	Eastern Mud Snails Blue Crab Ctenophore Sp. Palaemonetes Shrimp				
Macroinvertebrate Totals	TOTAL: 48	Diversity: 4				
Sediment Core- Core not taken but students observed a scoop of sediments	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features
					Abundant: Sand Rare: Pebbles	Pieces of shells, mud snails and seaweed present

Boats-None Observed					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded