

Day in the Life of the Hudson River 10/14/21
Penn side of Shirley Chisolm Park, Jamaica Bay

RIVER MILE: -3.75

Salt Front: ~ 49

Tiffany Yeung, Shirley Chisholm State Park

Students from High School of Civil Rights

12 students & 2 adults

Latitude & Longitude – Latitude 40° 38' 12'' N & Longitude – 73° 52' 21'' W

Location: East New York, Brooklyn

Area: A slightly protected part of Jamaica Bay with an open sandy shoreline near marsh grasses

Surrounding Land Use: Urban/Residential; Beach; Grassland Park

Sampling Site: Beach

Shoreline: 95% Sandy; 5% Rocky

Water: Calm

Plants in area: % Salt marsh cord grass (Sportina)

River Bottom description: Sandy

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	11:22 AM	25.7° C	78.2° F		
	11:48 AM	26.7° C	80.1° F		
<i>Wind Speed:</i>	11:24 AM	<i>Anemometer</i> 3.3 mph	<i>Beaufort</i> 2	<i>Direction</i> NE	
<i>Weather today</i>	11:00 AM	26-50% cloud cover	No rain		
<i>Weather the past 3 days:</i>	Warm and sunny today, humid the last three days but no rain since 10/10				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	11:03 AM			-12 cm	
	11:17 AM	Rising		-2 cm	
	11:27 AM	Rising		0 cm	
	11:57 AM	Rising		17 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	11:14 AM	4.39	0.085	North	Flood
	11:38 AM	2.27	0.044	Not apply	Slack
<i>Water Temperature-</i>	11:30 AM	20° C		68° F	
<i>Turbidity- Long Sight tube</i>	11:33 AM	98.6 cm			
Chemical					
<i>Salinity- Hydrometer</i>	11:30 AM	26 ppt			
	1:47 PM	26 ppt			
<i>Standardized Salinity – Refractometer</i>	2:25 PM	30 ppm			
<i>DO – Hach Drop Count kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% Saturation</i>
	11:30 AM	20° C		6	65%
<i>pH – color match kit</i>	11:30 AM	7.5			
<i>Nitrates- NR</i>					
<i>Phosphates-NR</i>					
Biological					

<i>Fish -</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<i>Seine 12:30-1:14 PM – 3 hauls</i>	116 145 7	Mummichog Striped Killifish Atlantic Silverside	8.8 cm 11 cm 7.62 cm	3 cm 4 cm 4 cm	
Fish Totals	TOTAL: 268	Diversity: 3			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	3 4 2 50 1	Blue Crab Hermit Crab Ctenophore sp. Eastern Mud Snail Clam sp.	5 cm 1 cm	1.5 cm	
Macroinvertebrate Totals	TOTAL: 60	Diversity: 5			
<i>Sediment Core</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
17.78 cm	No	Yes 3.81 cm	No	Abundant: sand	Rare: oyster shells
<i>Boats</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial -NR					
Residential	NR	3-4 Small Speed Boats	NR	Traveling West toward NY Harbor	NR