

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

Francis Lewis Park, Queens, NY

East RIVER MILE: 13.7

HR Salt Front: ~ RM 76

Pelham Preparatory Academy– Zachary Itzkowitz

New York City Park Rangers – Rangers Jonathan Kovaks, Joseph Czeisel

DEC Region 2 – Andrew Snyder

24 students & 8 adults

Latitude 40.797289°N & Longitude – 73.826217°W



Atlantic Silversides

Location: Francis Lewis Park, Queens, NY

Area: Near the Whitestone Bridge

Sampling Site: Pier, grassy, beach

Surrounding Land Uses: Urban/Residential, Beach

Shoreline: Sandy

River Bottom: Sandy

Water: Calm

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>	
<i>Physical</i>					
<i>Air Temperature-</i>	11:26 AM	26.1°C	79°F		
<i>Wind Speed:</i>	11:27 AM 11:30 AM	<i>Anemometer</i> 4.2 mph 6.9 mph	<i>Beaufort</i> NR	<i>Direction</i> N S	
<i>Weather today</i>	11:26 AM	>75% cloud cover	Drizzle		
<i>Weather the past 3 days:</i>	Sunny, no rain				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>		
	11:50 AM 12:01 PM 12:30 PM 12:40 PM	Rising Rising Rising Rising	25 cm 38 cm 63 cm 70 cm		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
*in a cove	11:53 AM	14.3	NR	NR	NR
<i>Water Temperature-</i>	11:30 AM	18.9°C	66°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	11:44 AM	➤ 120 cm		Exceeded the height of the tube	

Chemical					
Salinity-Hydrometer	11:32 AM	26 ppt			
Standardized Salinity – Refractometer	10:26 AM	26 ppt			
DO – Hach Drop Count Kit	<i>Time</i> 12:31 PM	<i>Temp</i> 18.9°C	<i>ppm DO</i> 7 ppm	<i>% saturation</i> 75%	
pH – Color Match Kit	11:37 AM	7.6			
Nitrates- water sample kit	NR	3.5 ppm			
Phosphates- water sample kit	NR	0.5 ppm			
Alkalinity- NR					
Biological-					
Fish – Seine 10-15 times	Number	Name	Length of longest	Length of smallest	
11:22 AM-12:30 PM	250	Atlantic Silverside			
Fish Totals	TOTAL: 250	Diversity: 1			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	2	Hermit Crab			
Macroinvertebrate Totals	TOTAL: 2	Diversity: 1			
Sediment Core –					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR	NR	No	No	Abundant: sand Common: gravel, pebbles	Common: leaves, shells Rare: wood
Boats-					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	11:22 AM	NA	White	Westbound	Light
	11:23 AM	NA	Blue/White	Eastbound	Light
	11:25 AM	NA	White	Westbound	Light
Recreational					