

Day in the Life of the Hudson River 10/14/21
Penn side of Shirley Chisolm Park, Jamaica Bay
RIVER MILE: -5
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 | Mummichog | 8.8 cm | 3 cm | |
| | 145 | Striped Killifish | 11 cm | 4 cm | |
| | 7 | Atlantic Silverside | 7.62 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 | Blue Crab | 5 cm | 1.5 cm | |
| | 4 | Hermit Crab | | | |
| | 2 | Ctenophore sp. | | | |
| | 50 | Eastern Mud Snail | | | |
| | 1 | Clam sp. | 1 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 |