**Day in the Life of the Hudson River 10/20/16**

**(Saltfront ~ RM 83)**

**EAST RIVER MILE 5.6**

**East River, Hunter’s Point, Long Island City, NY**

**Mary Mathai, Hunters Point Community MS 7th graders**

**Uzma Shah, Baruch College Campus High School 12th grade,**

**75 students, 5 adults**

**Kim Estes-Fradis, New York City Department of Environmental Protection**

**Location:** East River, Gantry Plaza State Park, Long Island City, Queens

**Surrounding Land Use:** Urban 80%; Grassy 15%; Rocky Shoreline 5%

**Sampling Site:** Shoreline is rocky with some plants and has piers and piping entering river

**Plants in area:** A few trees and tall grasses.

**Sample Time:** 10 AM

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |   |  |  |  |
| Air Temperature | 10:22 AM10:45 AM11:08 AM11:27 AM11:50 AM | 25°C25°C25°C25°C22°C | 77°F77°F77°F77°F72°F |  |
| Wind Speed & Cloud Cover  | 10:22 AM10:45 AM11:08 AM11:27 AM11:50 AM | Beaufort 1Beaufort 1Beaufort 2Beaufort 4Beaufort 5 | Partly cloudyPartly cloudyMostly cloudyMostly cloudyMostly cloudy/overcast |  |
| Weather last 3 days | Warm and Dry |
| ***Water Temperature*** | 10:09 AM10:30 AM11:00 AM11:28 AM11:47 AM | 15°C13°C12°C14°C13°C |  |  |
| ***Turbidity***Sight Tube Reading | 10:24 AM10:51 AM11:12 AM11:32 AM11:47 AM | 61 cm 60 cm54 cm52 cm49 cm | Somewhat Turbid |  |
| ***Chlorophyll*** | 10:24 AM10:51 AM11:12 AM11:32 AM11:47 AM | 0.10.10.10.10.1 |   |  |
| ***Chemical*** |  |  |  |  |
| DO (CHEMetrics ampules) | 10:26 AM10:48 AM11:08AM11:30 AM11:50 AM  | 20°C20°C18°C20°C20°C  | 6 ppm6 ppm6 ppm7 ppm7 ppm | 80 %85 %65 %75 %65 % |
| pH (test strips) | 10:23 AM10:48 AM11:09 AM11:28 AM11:55 AM | 65565 |  |  |
| Salinity(Hydrometer) | 10:23 AM10:48 AM11:09 AM11:28 AM11:55 AM | 33 pptNR35.5 ppt29.5 ppt35.5 ppt |  |  |
| ***Tides –***  | NR  |  |  |  |
| ***Currents*** | 10:22 AM10:45 AM11:08 AM11:27 AM11:50 AM | 183 cm /sec46 cm/sec27 cm/sec15 cm/sec19 cm/sec |  |  |
| ***Organisms found in Oyster Cage*** | Mud crabAmphipodsShrimpAlgaeTubix wormsOyster ToadfishSea Sponges |