**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 AM  10:45 AM  11:08 AM  11:27 AM  11:50 AM | | 25°C  25°C  25°C  25°C  22°C | 77°F  77°F  77°F  77°F  72°F |  |
| Wind Speed & Cloud Cover | 10:22 AM  10:45 AM  11:08 AM  11:27 AM  11:50 AM | | Beaufort 1  Beaufort 1  Beaufort 2  Beaufort 4  Beaufort 5 | Partly cloudy  Partly cloudy  Mostly cloudy  Mostly cloudy  Mostly cloudy/overcast |  |
| Weather last 3 days | Warm and Dry | | | | |
| ***Water Temperature*** | 10:09 AM  10:30 AM  11:00 AM  11:28 AM  11:47 AM | 15°C  13°C  12°C  14°C  13°C | |  |  |
| ***Turbidity***  Sight Tube Reading | 10:24 AM  10:51 AM  11:12 AM  11:32 AM  11:47 AM | 61 cm  60 cm  54 cm  52 cm  49 cm | | Somewhat Turbid |  |
| ***Chlorophyll*** | 10:24 AM  10:51 AM  11:12 AM  11:32 AM  11:47 AM | 0.1  0.1  0.1  0.1  0.1 | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (CHEMetrics ampules) | 10:26 AM  10:48 AM  11:08AM  11:30 AM  11:50 AM | 20°C  20°C  18°C  20°C  20°C | | 6 ppm  6 ppm  6 ppm  7 ppm  7 ppm | 80 %  85 %  65 %  75 %  65 % |
| pH (test strips) | 10:23 AM  10:48 AM  11:09 AM  11:28 AM  11:55 AM | 6  5  5  6  5 | |  |  |
| Salinity  (Hydrometer) | 10:23 AM  10:48 AM  11:09 AM  11:28 AM  11:55 AM | 33 ppt  NR  35.5 ppt  29.5 ppt  35.5 ppt | |  |  |
| ***Tides –*** | NR |  | |  |  |
| ***Currents*** | 10:22 AM  10:45 AM  11:08 AM  11:27 AM  11:50 AM | 183 cm /sec  46 cm/sec  27 cm/sec  15 cm/sec  19 cm/sec | |  |  |
| ***Organisms found in Oyster Cage*** | Mud crab  Amphipods  Shrimp  Algae  Tubix worms  Oyster Toadfish  Sea Sponges | | | | |