**Day in the Life of the Hudson River 10/20/15**

**EAST RIVER MILE 4.5**

**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,**

**50 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 | 10:10 AM10:32 AM10:57 AM11:19 AM11:40 AM | 13°C12°C13°C13°C15°C |  |  |
| Wind Speed | 10:10 AM10:32 AM10:57 AM11:19 AM11:40 AM  | 18 mph13-18 mph13-18 mph25-31 mph4-7 mph |  |  |
| Cloud Cover | 10:10 AM10:32 AM10:57 AM11:19 AM11:40 AM  | 65 %50 %50 %25 %25 % |  |  |
| Weather last 3 days | No rain today and cool last few days |
| ***Water Temperature*** | 10:09 AM10:30 AM11:00 AM11:28 AM11:47 AM | 15°C13°C12°C14°C13°C |  |  |
| ***Turbidity***Sight Tube | 10:15 AM10:35 AM10:57 AM11:22 AM11:42 AM | 48 cm 47.5 cm49 cm48 cm43 cm | ClearClearClearClearClear |  |
| ***Chlorophyll*** | 10:25 AM10:44 AM11:04 AM11:26 AM11:50 AM | 1.00.60.30.30.5 |   |  |
| ***Chemical*** |  |  |  |  |
| DO (CHEMetrics ampules) | 10:09 AM10:30 AM11:00 AM11:28 AM11:47 AM  | 15°C13°C12°C14°C13°C  | 7 ppm8 ppm7 ppm6 ppm6 ppm | 65 %75 %65 %60 %55 % |
| pH (test strips) | 10:14 AM10:45 AM11:02 AM11:34 AM11:53 AM | 67-877-87-8 |  |  |
| Salinity(Hydrometer) | 10:14 AM10:45 AM11:02 AM11:34 AM11:53 AM | 24 ppt24 ppt22 ppt22 ppt22 ppt |  |  |
| ***Tides –***  | 10:10 AM10:32 AM10:57 AM11:19 AM11:40 AM  | RisingStay sameStay sameRisingRising |  |  |
| ***Currents*** | 10:10 AM10:32 AM10:57 AM11:19 AM11:40 AM  | 28 cm /sec34 cm/sec32 cm/sec34 cm/sec36 cm/sec |  |  |