**Day in the Life of the Hudson River 10/16/14 Data**

**(Salt Front RM 65.9)**

**RIVER MILE 4**

**Pier 84**

**N 40.76408 W-74.001893**

**Tina Walsh, Carrie Robles and staff, Hudson River Park Trust**

**Lavonne Hunter and staff, Baychester Middle School in the Bronx, 38, - 7th graders, 9 adults**

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**Location:** Pier 84, is an educational pier used for picnics, boating, jogging, fishing

**Area:** Pier – bulkhead – mainly concrete & wood

**Surrounding Land Use:** 60% urban/residential, 40% Industrial Commercial

**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged

**Depth:** ~12 feet off pier

**Plants in area:** No plants

**Water:** Calm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 11:00 AM11:30 AM12:00 AM | 20°C18.9°C17.8°C |  |  |
| Wind Speed | 10:30 AM10:55 AM11:20 AM11:45 AM | Beaufort 3 Beaufort 3Beaufort 3Beaufort 3 |  |  |
| Cloud Cover | 10:30 AM10:55 AM11:20 AM11:45 AM | 100%100%100%100% |  |  |
| Weather today | Rainy  |  | ***Water surface*** | choppy |
| Weather recently | Humid some rain |
| ***Water Temperature*** | 11:00 AM11:02 AM11:30 AM11:50 AM | 20, 19, 20°C19°C20°C18, 19°C |  |  |
| ***Turbidity******Turbidity tube – cm***  | 11:15 AM11:35 AM11:45 AM12:15 PM | 30, 43.5, 47,4730 cm30, 30 cm53.5 X 5 |  AVERAGE | 41.75 cm30 cm30 cm53. 5 cm |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO Estuary wide monitoring Kit –  | 10:50 AM10:50 AM | 22 | 18° C19°C | 20%20% |
| pHkit as above | 11:30 AM11:50 AM | 77 |  |  |
| Salinity -refractometer | 11:50 AM11:50 AM11: 50AM | 24 ppt24 ppt24 ppt |  |  |
| Salinity -hydrometer | 11:00 AM11:05 AM11:05 AM11:05 AM11:05 AM11:08 AM11:20 AM | 21.619222321.62020  | Average  | 21 ppt |
| ***Fish Catch*** | Time | Species | Size | All caught on line |
| ***Hook, line, sinker*** | 10:35 PM | Blue Crab | 5 inches |  |
| ***Tides - water depth***  | ***Time*** | ***Distance to water***  | ***Rate of change*** | ***Flood or Ebb***  |
| ***\*HRECOS has much larger rate of change***  | 10:30AM12:20 PM | 295 cm305 cm | Start point10 cm\* | Flooding |
| ***Currents*** | ***Time*** | ***Meter/sec*** | ***Cm/sec*** | ***Ebb/Flood*** |
|  | 10:15 AM |  |  | Flooding |
|  | 10:30 AM |  |  | Flooding |
|  | 11:00 AM |  |  | Flooding |
|  | 11:30 AM |  |  | Flooding |

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