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

**RIVER MILE 4**

**Pier 84**

**N 40. 40.76408, W-74 .001893**

**Tina Walsh and staff from the Hudson River Park**

**Julie Taegel, City Knoll Middle School, 15 6th graders and 1 adult - AM**

**Lavonne Hunter, CASA, 45 sixth graders and 5 adults – Mid Day**

**Christine Kecskemeti, PS 51 Elais Howe School 60 4th graders and 8 adults - PM**

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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, muddy bottom

**Depth:** ~12 feet off pier

**Plants in area:** No plants

**Water:** Calm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 10:30 AM11:30 AM12:00 AM1:15 PM1:45 PM2:00 PM | 11°C12°C16°C20 °C19°C14°C |  |  |
| Wind Speed | 10:30 AM11:00 AM11:30AM12:15 PM1:15 PM1:45 PM2:15 PM | Beaufort 2 Beaufort 2Beaufort 3Beaufort 2Beaufort 2Beaufort 3Beaufort 2 | 4.7 mph3.9 mph5 mph4 mph4 mph7 mph4 mph | SWSWSWSSWSWS |
| Cloud Cover | 10:30 AM11:00 AM11:30AM12:15 PM1:15 PM1:45 PM2:15 PM  | Clear all day  | <25% cloud cover all day |  |
| Weather today | Clear |  | ***Water surface*** |  |
| Weather recently | Cool some rain |
| ***Water Temperature*** | 11:00 AM11:40 AM12:00 PM1:15 PM1:45 PM2:00 PM | 14°C13°C12°C & 11°C14°C12°C12 °C |  |  |
| ***Turbidity******Turbidity tube – cm***  | 10:30 AM11:00 AM11:50 AM12:15 PMPMPM | 47 cm35 cm39 cm30 cm56 cm57 cm |  |  |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO Estuary wide monitoring Kit –  | 10:30 AM11:00 AM11:30 AM11:45 AM1:15 PM1:45 PM2:00 PM2:15 PM | 88678988 | 14°C14°C131314121212 | 78%78%56%65%78%80%75%75% |
| pHkit as above | 0:30 AM11:00 AM11:30 AM11:45 AM1:15 PM1:45 PM2:00 PM2:15 PM  | 77777.57.577 |  |  |
| Salinity -hydrometer | 10:30 AM11:00 AM12:00 PM12:15 PM1:20 PM1:45 PM2:15 PM | 181815.515.5161515  |  |  |
| ***Fish Catch*** | Time | Species | # caught | Size |
| ***Fishing rod with circle hook & clam bait*** |  | Striped BassSilversideBlue Crab | 611 | 23 cm5 cm5 cm |
| ***Tides - water depth***  | ***Time*** | ***Distance to water***  | ***Rate of change*** | ***Flood or Ebb***  |
|  | 10:15AM11:15AM1:00 PM | 183cm213 cm244 cm |  | Flooding |
| ***Currents*** | ***Time*** | ***Meter/sec*** | ***Cm/sec*** | ***Ebb/Flood*** |

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***Salinity at Pier 84***

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***DO at Pier 84***