**Day in the Life of the Hudson River 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 4**

**Pier 84**

**N 40.76408 W-74.001893**

**Mark Cheever, Carrie Robles and staff, Hudson River Park Trust**

**Christine Kecskemeti, Liz Walden and staff, Elias Howe, PS 51, 47, 4th graders**

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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:** 100% urban/residential

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

**Depth:** ~12 feet off pier

**Plants in area:** No plants

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| ***ITEM*** | ***Time*** | | ***Readings*** | |  |  |
| ***Physical*** |  | |  | |  |  |
| Air Temperature | 12:15 PM  12:46 PM  1:03 PM | | 16°C  16°C  15°C | |  |  |
| Wind Speed |  | |  | |  |  |
| Cloud Cover | 12:15 PM  12:46 PM  1:03 PM  1:33 PM | | 100%  100%  100%  100% | |  |  |
| Weather today | Foggy, damp | |  | | ***Water surface*** | choppy |
| Weather recently | Nice | | | | | |
| ***Water Temperature*** | 11:10 AM  12:02 PM | 21°C  20.6°C | | |  |  |
| ***Turbidity***  ***Turbidity tube*** | 12:25 PM  12:50 PM  1:10 PM  1:40 PM | 50,53,45 cm  55,48,37 cm  36,25,34 cm  51, 40, 38 | | | 49 cm avg  47 cm  32 cm  43cm |  |
| ***Chlorophyll*** |  |  | | |  |  |
| ***Chemical*** | **Time** | **ppm** | | **Avg** | **Temp** | **% Sat** |
| DO  Estuary wide monitoring Kit – | 12:20 PM  12:50 PM  1:10 PM  1:40 PM | 3,3,4  4,7,4  8,8,6  8,8,8 | | 3.3  5  7.6  8 | 15° C  15°C  15°C  15°C | 29%  50%  74%  79% |
| pH  kit as above | 12:20 PM  12:50 PM  1:10 PM  1:40 PM | 7, 7, 7  7,7,7  7,77  7,7,7 | | | 7 average  7  7  7 |  |
| Salinity -refractometer | 1:10 PM | 20 ppt | | |  |  |
| Salinity -hydrometer | 12:20 PM  12:50 PM  1:10 PM  1:40 PM | 16, 14, 17  16, 17, 16  16,16,17  17, 18, 18 | | | Average  Average  Average  Average | 15.6 ppt  16.3 ppt  16 ppt  17.6 ppt |
| ***Fish Catch*** | Time | Species | | | Size | All caught on line |
| ***Hook, line, sinker*** | 12:24 PM | White Perch | | | 7 inches |  |
| ***w/ clam bait*** | 12:40 PM | White Perch | | | 6 inches |  |
|  | 12:45 PM | Striped Bass | | | 8 inches |  |
| ***Tides (from pier to water)*** | ***Time*** | ***Distance to water*** | | | ***Rate of change*** | ***Flood or Ebb*** |
|  | 12:15 PM  12:46 PM  1:03 PM  1:35 PM | 160 cm  162 cm  171 cm  173 cm | | | Start point  2 cm  9 cm  2 cm | Flooding  Ebbing  Ebbing |
| ***Currents*** | ***Time*** | ***Meter/sec*** | | | ***Cm/sec*** | ***Ebb/Flood*** |
|  | 12:15 PM |  | | |  | Flooding |
|  | 12:46 PM |  | | |  | Still |
|  | 1:03 PM |  | | |  | Ebbing |
|  | 1:35 PM |  | | |  | Ebbing |