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

**(Salt Front RM 69.3)**

**RIVER MILE 43**

**Riverfront Green, Peekskill, Westchester**

**Michael Billy, Walter Panas High School - 24 students, 12th grade APES, 3 adults**

**Latitude N 41°17’13” Longitude W 73°55’54"**

**Location:** Riverfront Green, Peekskill, Westchester County

**Area:** Grassy park area with beachfront, pier, sandy beachfront, used for picnics, boating and fishing

**Surrounding Land Use:** 100% beach

**Sampling Site:** beach with brick, charcoal, slag

**Plants in area:**

**Water depth**: 1 meter

**River Bottom** – sandy, muddy, rocky.

**Site Observations:** brick, crab shells, glass, plastic, water chestnut pods, H20 bottles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 11:50 AM | | 50°F  10°C | 12:12 PM | 50°F  10°C |
| Wind Speed | 3 Beaufort | |  |  |  | |
| Cloud Cover | overcast | |  |  |  |
| Weather today | Overcast with sporadic light rain | | | | | |
| Weather recently | overcast | | | | | |
| ***Water Surface*** | Choppy |  | |  |  |
| ***Water Temperature –*** | 11:50 AM | 63 °F  17°C | | 12:12 PM | 63 °F  17°C |
| ***Turbidity – as noted*** | 11:30 AM  11:35 AM  11:41 AM | 2.75 feet  37.2 cm  51.7 NTU | | 39.3 NTU | Secchi  Long site tube  turbidimeter |
| ***Chlorophyll*** |  | 1.0 | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (drop kits) | 11:45 AM | 6.3 mg/l | | 19.5°C | 67 % satur. |
| pH | 11:30 AM | 7.5 X 3 | |  | 7.5 average |
| Salinity -  meter | 11:30 AM | 4.76 ppt  4.76 ppt | |  | - |
| Salinity test strips | 12:00 PM | 0.449 % NaCl  0.375 % NaCl | | 811 ppm  677 ppm |  |
| ***Fish Catch- Noon*** | ***Number Caught*** | ***Species*** | | ***Length*** | ***Diversity/ Totals*** |
| 20 ft net X 4ft–  60 ft. net X 4ft. | 2 | White Perch | | 16 cm | **DIV = 5**  **Totals - 25** |
| 7 runs | 5 | American Shad | | 7.5 cm |  |
| Used 2 different seines – 60 ft. 3 times and 20 ft. 4 times more successfully | 16 | Striped Bass | | 12 cm |  |
| 1 | Spottail Shiner | |  |  |
| 1 | Atlantic Silverside | |  |  |
| ***Tides*** | 11:30 AM | 61 cm | |  |  |
|  | 1:00 PM | 107 cm | | 46 cm  0.51 cm/sec | rising |
| ***Currents*** | **Time** | **Cm/175 sec** | | **Cm/sec** | **Kts/Direction** |
|  | 11:30 AM | 460 | | 2.6 cm/sec | 0.05 kts/flooding |
| ***Core –*** | **Length** | **Rare** | | **Common** | **Abundant** |
| ***2 meter water depth***  ***47***°***17’12” N***  ***73***°***55’54”W*** | 4 cm |  | | sand | Mud |
| ***Commercial Traffic*** |  |  | |  |  |
| ***Recreational Traffic*** |  |  | |  |  |
| ***Other Items*** |  | | | | | |