**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°F10°C | 12:12 PM | 50°F10°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 °F17°C | 12:12 PM | 63 °F17°C |
| ***Turbidity – as noted*** | 11:30 AM11:35 AM11:41 AM | 2.75 feet 37.2 cm51.7 NTU | 39.3 NTU | SecchiLong site tubeturbidimeter |
| ***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 % NaCl0.375 % NaCl | 811 ppm677 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 cm0.51 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*** |  |