**Day in the Life of the Hudson River 10/20/16 Data**

**(Salt front ~ RM 83)**

**RIVER MILE 75.5**

**Waryas Park, Poughkeepsie, Dutchess County**

**Sharon Ellis, Walkill HS, 25 students, 9th gr Living Environment, 3 adult**

**N 41°7056’ – W -73°9403’**

**Location:** Waryas Park, Poughkeepsie, New York.

**Area:** public park, pier, grassy, parking lot. Park used for fishing, small boat launch, another pier for small boat launching

**Surrounding Land Use:** 75 % industrial/commercial; 25% park area with grass and waterfront docks

**Sampling Site:** shoreline is 100% riprap along the water with vegetation, banks altered, pier, alongside and behind

**Plants in area:** No plants in water area but devil’s head seed pods on the shore (water chestnut)

**River Bottom** - rocky

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature |  | | Chillier than expected! |  |  | |
| Wind Speed | 10:16 AM | | 7.1 m/hr | NE | | |
| Cloud Cover | 10:16 AM | | Ostly cloudy | 51%-75% |  | |
| Water | calm | | | | | |
| Observations |  | | | | | |
| ***Water Temp.*** | 10:33 AM | 17 degrees C  18 degrees | | 62 degrees F  64 | | Average 63 F  17.5 C |
| ***Turbidity – long site tube*** | 10:30 AM | 55.2 cm  57  42.9 | |  | | 51.7 cm average |
| ***Chemical*** |  |  | |  | |  |
| DO - LaMotte kit | 11:50 AM  11:55  12:00 | 17 C  17C  17C | | 13 ppm  10 ppm  11 ppm | | 135 % satur.  105%  11% |
| pH – color match | 10:45 AM | 7.9  7.7  7.9 | |  | | 7.83 Averages |
| Salinity - quantab | 11:00 AM | 2.2 on strip  2.8 | | 61 ppm Cl-  86 ppm Cl- | | 110 ppm TS  155 ppm TS |
| ***Fish Catch – 10feet net*** | ***Number Caught*** | ***Species*** | | ***Largest*** | |  |
|  | 1  13  1  4  1 | Striped Bass  Spottail Shiner  Bluegill Sunfish  Pumpkinseed  White Perch | |  | | **DIV 5**  **TOTAL 20** |
| ***Tides*** | NR |  | |  | |  |
| ***Currents*** | 10:16 AM  10:17 AM | 432cm/30sec  434 cm/30 sec | |  | | EBB  EBB |
| ***Core – 10:30 AM*** | **Length of Core** | **Rare** | | **Common** | | **Abundant** |
| ***\*Mud/gravel/pebbles on bottom***  ***\*Mud/water chestnuts middle***  ***\*Mud top*** | 18 cm long | Gravel  Pebbles  Leaves | | Mud  2 water chestnut seeds | |  |
| ***Shipping – rec.*** | 12:00 PM | Speedboat - white | | North & southbound | | Light |