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

**(Salt Front ~ RM 83)**

**RIVER MILE 76**

**Waryas Park, Poughkeepsie, Dutchess County**

**Brent Boscarino** **10th graders** **& Lynn Fordin 2nd graders, Poughkeepsie Day School**

**26 students and 2 adults**

**N 41°42’33.95” – W 73°56’24.49”**

 **Location:** Waryas Park (Upper Landing Park by Fallkill Creek Outlet), Poughkeepsie, New York.

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

**Surrounding Land Use:** 40 % urban/residential; 20% Industrial/commercial, 20% forested, 20% other

**Sampling Site:** shoreline is rip rap, rocky, concrete docking exposed at low tide

**Plants in Sample Area:** Very few

**Shoreline:** 100% rocky

**River Bottom** –sandy, muddy

**Water Depth -** 64.5 cm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:35 AM | 59 F | 15 C |  |
| Wind Speed | 10:35 AM | #1 |  |
| Cloud Cover | 10:35 AM | overcast  | 76-100% |  |
| Water | Calm  |
| Weather  | Dry |
| Weather last 3 days | Very warm and sunny |
| ***Water Temp.*** | 10:30 AM | 17 degrees C | 62.6 F | . |
|  | 10:55 AM | 17 degrees C |  |  |
|  | 11:15 AM | 17 degrees C |  |  |
| ***Turbidity – long site tube*** | 10:17 AM | 20 cm | 16.6 cm | Average 18.3 cm |
| ***Chemical*** |  |  |  |  |
| DO - Drop Count  | 10:47 AM | 12 ppm | 17C | 125% sat. |
| pH – indicator sol. | 10:16 AM  | 7.8 |  |  |
| Salinity - quantab | 10:16 AM  | 3.8 value | 162 ppm Chl | 293 ppm TS |
| Nitrates | 11:07 AM | 2.5 ppm |  |  |
| Alkalinity | 11:10 AM | 32 ppm |  |  |
| ***Fish Catch – 28 feet net*** | ***Number Caught*** | ***Species*** |  ***Largest*** |  |
| ***12:30 PM –******10:15 seine 1*** | 1 | White Perch | 7.6 cm | **DIV – 5****Catch - 9** |
| ***865 cm X 107 cm*** | 3 | Spottali Shiner  | 115 mm  |  |
|  | 3 | Striped Bass | 85 mm |  |
|  | 1 | Eel | Small elver |  |
|  | 1 | Banded Killifish | 60 mm |  |
| ***10:45 seine 2*** | 4 | Spottail Shiner | 85 mm  | **DIV – 1****Catch - 4** |
| ***FISH - TOTAL DIV 5, COUNT 13*** |  |  |  |  |
| ***Total Catch Per Unit Effort*** | 10:15 AM seine 1 | 9 | 8.65 m | 1.04 CPUE |
|  | 10:45 AM seine 2 | 4 | 8.65 m | 0.46 CPUE |
| ***Macroinvert*** | 6 | Lady Crab | 4 male, 2 female | **DIV – 1****Catch - 6** |
| ***TOTAL Macro DIV - 1*** |  | **TOTALS - 6** |  |  |
| ***Tides*** | 10:30 AM | 64.5 cm |  |  |
|  | 10:55 AM  | 64.5 cm |  | Unchanged |
|  | 11:15 AM | 66 cm |  | Mostly unchanged |
| ***Currents*** | 10:30 AM | 184 cm/30sec | 17.9 cm/sec | 0.35 kts - Ebb |
|  | 10:55 AM  | 240 cm/30sec | 13.7 cm/sec | 0.27 kts - Ebb |
|  | 11:15 AM | 613cm/30 sec | 8.8 cm/sec | 0.17 kts. Ebb |
| Note there is the Fall Kill Creek right near the site which could create some swirling eddies. The orange was tossed north of the creek (in the main channel) |
| 11:35 AM | Power Boat  | Red | Southbound |  |
| ***Observations***  | Chestnut seeds | Geese | Seagulls |  |