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

**RIVER MILE 108.5**

**(Salt Front ~RM 83)**

**Lasher Memorial Park, Germantown, Columbia County**

**John Horton, Columbia Land Conservancy**

**Jim McDarby, Hudson High School, 11/12th graders – 42 students, 9 adults**

**GPS Latitude 42.159115 Longitude 73.885823**

**Location:** Lasher Memorial Park, Boat Launch, North Germantown Landing

**Area:** Grassy area, used for picnics and boating, boat launch

**Surrounding Land Use:** Forested – 40%; Urban/residential 50%; Beach 5%, mowed park 5%

**Sampling Site:** Park with mowed lawn, rip rap in area

**Water depth**: 1 ft.

**River Bottom** : sandy, muddy

**Water Plants:** some plants in water but cover < 50% - water chestnut & spatterdock

**Plants in area:** phragmites

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  |  |  |  |
| Air Temperature | 10:58 AM  11:52 AM  1:10 PM | 74°F  64°F  64°F | 23°C  18°C  16°C |  |
| Wind Speed | Beaufort #1 | W | 1:10 PM |  |
| Cloud Cover | 76-100% | Gradual clearing |  |  |
| Weather today | Light intermittent sprinkling during last sample 1:10 PM | Rain at 2:00 PM |  |  |
| Weather recently | Unseasonably warm |  |  |  |
| ***Water Temperature*** | 10:28 AM  11:22 AM  12:52 PM | 16°C  17  16 | 61 °F  63 °F  61 °F |  |
| ***Water calm*** | Calm |  |  |  |
| ***Turbidity – sight tube*** | Time not noted | 18.2 cm  28.0  34.2 | Average 26.8 cm |  |
| ***Chemical*** |  |  |  |  |
| *DO – drop count kit* | 10:51 AM  11:40 AM  1:09 PM | 12 ppm  11 ppm  12 ppm | 16 °C  17  16 | >100% |
| *pH –indicator solution* | 10:22 AM  11:17 AM  12:46 PM | 7.5  7.5  7.5 |  | Avg 7.5 |
| Salinity – Hydrometer | 12:50 PM | Below detection |  |  |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***Length of largest*** | ***Macro Species*** |
| 100 ft. seine net X 1/2 inch mesh | 11 | Tessellated Darter | 7 cm | **DIV 5** |
|  | 17 | Spottail Shiner | 9 cm | **TOTAL 48** |
|  | 3 | Banded Killi | 9 cm |  |
|  | 16 | White Perch | 13 cm |  |
|  | 1 | Carp |  |  |
| ***Macro*** | 1 | Blue Crab | Male | **DIV 1**  **TOTAL 1** |
| ***Tides*** | 9:53 AM  10:47 AM  11:13 AM | 25 cm  2 cm  0 cm | Falling  Falling  Falling | Drop of  0.4cm/min  0.08 cm/min |
| ***Currents***  10:51 AM  11:37 AM  1:10 PM | **Cm/30 Sec**  350  700  0 | **Cm/Sec**  11.7.  23.3  0 | **Kts**  0.227 kts  0.454  0 | **N/S**  South/Ebb  South/Ebb  Still |
| ***Traffic*** | NR |  |  |  |