**A Day in the Life of the Hudson River 10/4/13 Data**

**RIVER MILE 108**

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

**Tom Crowell, Columbia Land Conservancy**

**Jim McDarby, Hudson High School, 11/12th graders – 37 students, 8 adults**

**GPS Latitude 42°09.50’ N Longitude 73**°**53.21’W**

|  |  |
| --- | --- |
| **Macintosh HD:Users:margie:Documents:Snapshot Day:2015:photos:Germantown4.JPG** | **Macintosh HD:Users:margie:Documents:Snapshot Day:2015:photos:Germantown2.JPG** |



**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

**Water Plants:** no plants in the water area

**Plants in area:** Phragmites

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 11:00 AM1:00 PM | °F°F | 13°C15°C |  |
| Wind Speed | Beaufort #2 | S |  |  |
| Cloud Cover | 76-100% | Gradual clearing |  |  |
| Weather today | No rain, overcast with gradual clearing |  |  |  |
| Weather recently | 2 days ago very coldyesterday snow |  |  |  |
| ***Water Temperature*** | 9:40 AM12:02 PM | 11°C12 | 51.8 °F53.6 °F |  |
| ***Water calm*** | Calm |  |  |  |
| ***Turbidity – sight tube*** | Time not noted | 43 cm |  |  |
| ***Chemical*** |  |  |  |  |
| *DO – drop count kit* | 10:45 AM | 11°C | 16 ppm | Tested 6 times with this result |
| *pH –indicator solution* | 11:00 AM | 7.58 |  | Avg 7.75 |
| Salinity – Quantabs | 10:40 AM | <1 on the bar |  <28 ppm Chloride | <51 ppm total salinity |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***Length of largest*** | ***Macro Species*** |
| 100 ft. seine net X 1/2 inch mesh | 111 | Blueback Herring | 9 cm | **DIV 7** |
|  | 6 | Darter | 8 cm | **TOTAL 154** |
| ***Fish-*** 6 seines total | 12 | Striped Bass | 13 cm |  |
|  | 3 | Banded Killi | 8 cm |  |
|  | 17 | Spottail Shiner | 13 cm |  |
|  | 4 | Pumpkinseed | 13 cm |  |
|  | 1 | Sunfish | 9 cm |  |
| ***Macro*** |  | ScudCaddisflyZebra Mussels |  | **DIV 3**  |
| ***Tides*** | 9:30 AM11:30 AM12:30 PM | 70 cm50 cm25 cm | FallingFallingFalling | 0.16 cm/min0.42 cm/min |
| ***Currents*** | 11:30 AM | 11cm/sec | 0.21 kts | South/Ebb |
| ***Traffic*** | NR |  |  |  |