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

**(Salt Front RM 69.3)**

**RIVER MILE 138 – Henry Hudson Park**

**Mary Cosgrove, 2 faculty & 10 students, Mt. St. Rose College**

**Susan Schiavoni, Delaware Community School – 25, 3rd grade elementary students, 2 teachers,**

**Coordinates: 42.64 N, 73.74 W**

|  |  |
| --- | --- |
| **Macintosh HD:Users:margie:Documents:Snapshot Day:2013:photos:Henry Hudson Park:Mary's pictures Oct 2013 007crop.jpg** | **Macintosh HD:Users:margie:Documents:Snapshot Day:2013:photos:Henry Hudson Park:Mary's pictures Oct 2013 001Crop.jpg** |

**Location:** Waterfront of Henry Hudson Park **Area:** Park/Boat launch,

**Surrounding Land Use**: 100% parkland with 75% vegetated coverage – grassy, parking lot, used for picnics, boating, fishing

**Sampling Site:** Banks altered, riprap, bulkheaded -rocky

**Plants in area:** Smartweed, ragweed, Joe-pye weed, jewelweed, purple loosestrife, grass

**Water depth**: **River Bottom** – **Water** -calm

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** | ***Time*** | | ***Temp*** | ***Wind Speed*** | ***Weather today*** |
| Air Temperature |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
| Cloud Cover | cloudy | |  |  |  |
| Weather last 3 days | Rainy, cool | | |  |  |
| ***Water Temperature*** |  |  | |  |  |
| ***Turbidity*** Large site tube | 10:50 AM | 50 cm | |  |  |
|  | 11:10 AM | 52 cm | |  |  |
|  | 10:30 AM | 52 cm | |  |  |
|  | 10:50 AM | 52 cm | |  |  |
| ***Chlorophyll*** | 10:50 AM | 0 .4 | |  |  |
|  | 11:10 AM | 0.4 | |  |  |
|  | 11:30 AM | 0.3 | |  |  |
|  | 10:50 AM | 0.3 | |  |  |
| **DO -Drop count** | **Time** | **Mg/L** | | **Temp** | **% Saturation** |
|  | 10:50 AM | 8 | | 16.1 | 85% |
|  | 11:10 AM | 8 | | 15.9 | 85% |
|  | 11:30 AM | 9 | | 16 | 90% |
|  | 10:50 AM | 9 | | 15.9 | 90% |
| pH | 5 tests | 6  6.6  6  6  6.5 | |  | Average 6.2 |
| Salinity -Test strip | Group # | Quantab # | | Cl- | Total Salinity |
|  | 1 | 1.2 | | 28 ppm | 51 ppm |
|  | 2 | 1.2 | | 28 ppm | 51 ppm |
| Tides | Time | Height (cm) | |  |  |
|  | 10:40 AM | 190 cm | |  |  |
|  | 12:00 PM | 220 cm | | Rising | 30 cm/80 min |
| Currents | Time | 500 cm/X sec | | Cm/sec |  |
|  | 10:40 AM | 500cm/9 sec | | 55.56 |  |
|  |  | 500 cm/22 sec | | 2.27 |  |
|  |  | 500 cm/26 sec | | 19.23 |  |
|  |  | 500 cm/15 sec | | 33.33 |  |
| **Fish Catch** | **Numbers** | **Species** | | **Fish length** | **Diversity/Totals** |
|  | 1 | Blueback Herring | | 5 cm | **Div = 2** |
|  | 12 | Gizzard shad | | 5 cm | **Totals =13** |
|  |  |  | |  |  |