**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE 58b**

**Plum Point/Kowawese, New Windsor, Orange County, NY**

**Janet DeStefano, Vails Gate School**

**33, 3rd grade students, 7 adults**

**GPS Latitude 41°27’47.67”N Longitude 74°0'42.88"W**

**Location:** NorthernSandy beach at Plum Point, New Windsor, Orange County, Public Shore, Picnic Area

**Area:** Sandy beachbordered by forested area and parking lot. Used for picnic, fishing, kayaking

**Surrounding Land Use:** Forested 50%,Beach 50%,

**Sampling Shoreline:** 75% sandy, 25% rocky

**Sampling Site:** sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking

**Plants in area:** none in sampling area

**Shoreline:** pieces of brick, water chestnut seeds on beach, pieces of shells, full small zebra mussels

**River Bottom** – sandy, muddy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:07 AM11:00 AM | 14°C 16 | 56°F60 |  |
| Wind Speed | 10:00 AM | Beaufort #3 | Anemometer 2.9m/s | South |
| Cloud Cover | 26-50% |  |  |
| Weather today | No rain |
| Weather recently | Cold, heavy frost  |
| ***Water Surface*** | choppy |
| ***Water Temperature*** | 10:17 AM11:00 AM | 14°C 17 °C | 58°F62 °F |  |
| ***Water Surface*** | Choppy |  |  |  |
| ***Turbidity*** *Long sight tube* | 10:40 AM | 14 cm16 cm14 cm | Average – 15 cm  | Water was sandy/muddy-water had clay on bottom |
| ***Chemical*** |  |  |  |  |
| DO (drop kit) | 10:20 AM11:20 AM | 14°C17°C | 610 | 58% Sat100% |
| pH – indicator | 10:40 AM11:00 AM | 6.76.6 |  |  |
| Salinity –  | NR |  |  |  |
| ***Fish Catch***35 ft. ‘ with ¼ inch mesh | ***Species*** | ***Count*** | ***Size of largest*** | ***Totals*** |
| **Fish** 11:00 AM | Spottail Shiner | 6 | 8cm | **DIV – 7****TOTAL - 48** |
|  | White Perch | 3 | 15 cm |  |
|  | Herring | 20 | 8 cm |  |
|  | Bay Anchovy  | 12 | 5 cm |  |
|  | Striped Bass | 2 | 15 cm |  |
|  | Banded Killi | 4 | 8 cm |  |
|  | American eel - elver | 1 | 13 cm |  |
| **Macroinvert** | Blue Crab  | 2 | Males | **DIV – 1****TOTALS - 2** |
| ***Tides*** | **Time** | **Height in cm** | **Rate of change** | **Rising/falling** |
|  | NR  |  |  |  |
| ***Currents*** | 10:50 AM |  |  | ebb |
| ***Core***  | ***Time*** | ***Description*** | ***Common*** | ***Rare*** |
|  | 11:50 AM | 11.5 cm | ClaySand | MudGravel |
| ***Shipping – commercial***  | 9:30 AM9:30 AM9:45 AM11:00 AM  | BargeTug boatFerryTug boat | Brown BlueWhiteBlue  | NorthNorthNorth - lightNorth  |
| ***Shipping – Recreational*** | 11:00 AM12:30 PM | SpeedboatSailboat | WhiteWhite | SouthSouth - light |
| ***Observations*** | Eagle | caterpillar |  |  |