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

**(Saltfront ~ RM 83)**

**RIVER MILE 58**

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

**Rebecca Foster-Faith, Bishop Dunn Memorial,**

**Jenny Brinker, Museum of the Hudson Highlands,**

**33 seventh graders , 3 adults**

**GPS Latitude 41.463 Longitude -74.015**

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**Location:** SouthernSandy beach at Kowawese, Plum Point, New Windsor, Oran

ge County, Public Shore, Picnic Area

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

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

**Shoreline:** 75% rocky, 20% muddy, 5% sandy

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

**Plants in area:** < 50%, type not recorded

**Water depth**: NR

**River Bottom** – sandy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 9:34 AM10:27 AM11:52 AM | 16.2°C 20.616.7 | 61°F6962 |  |
| Wind Speed | 9:52 AM11:54 AM12:30 PM | Beaufort #1Beaufort #3Beaufort #3 | NR8 mph8.8 mph | North |
| Cloud Cover | Mostly cloudy | 51%-75% | By 11:54AM overcast >75% |
| Weather today | No rain |
| Weather recently | Very warm – unusually so – 70 degrees plus  |
| ***Water Surface*** | choppy |
| ***Water Temperature*** | 10:25 AM | 14.5°C 58 °F | 11:45 AM | 15°C 59 °F |
| ***Water Surface*** |  |  |  |  |
| ***Turbidity*** *Short sight tube* | 10:02 AM | 60, 70, 40 | 85 JTUs |
| ***Chemical*** |  |  |  |  |
| DO  | TIME | Temp | DO | % Sat |
| DO – drop count test kits\*expect air bubble | 9:59 AM10:55 AM12:10 PM12:56 PM | 20°C17°C17°C17°C | 11 ppm15 ppm\*9 ppm12 ppm | 120%150 %85%125% |
| pH – test strip | 9:42 AM  | 6  |  |  |
| ***Salinity – Quantab*** | ***Time*** | ***Quantab units*** | ***Chloride*** | ***Total Salinity*** |
|  | 10:31AM12:38 PM12:06 PM | 9.6 units ?5.8 units HR5.4 units HR | Assume LR1506 ppm1281 ppm  | Assume topped out2721 ppm2314 ppm |
| ***Nitrates***  | AM readings  | All below detection ‘0’ |  |  |
| ***Fish Catch*** | ***Species*** | ***Count*** | ***Size of largest*** | ***Totals*** |
| **FISH**  | Spottail Shiner | 8 |  | **DIVERSITY 4****TOTALS -18** |
|  | Herring | 2 |  |  |
|  | Striped Bass | 4 |  |  |
|  | Darter | 4 |  |  |
| **MACRO**  | Blue Crab – M | 2 |  | **DIVERSITY – 1****TOTALS - 2** |
| ***Tides*** | 9:27 AM9:45 AM10:20 AM11:46 AM 12:27 PM | 39.636.642.6785.3494.5 | Set pointFallingRisingRisingRising |  |
| ***Currents*** | ***Time*** | ***Cm/30 sec*** | ***cm/sec***  | ***Kts*** | ***N/S/F*** |
|  | 9:30 AM10:23AM11:40 AM12:30 PM | 792.545.72396.24396.27 | 26.41.5213.213.21 | 0.510.030.260.26 | FloodEbbFloodFlood |
| ***Shipping Recreational*** | 12:27 PM12:47 PM | PaddleboatSailboat |  | NorthboundSouthbound  |