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

**(Saltfront ~ RM 83)**

**RIVER MILE 123**

**River Front Park, Coxsackie**

**Jen Rausch, Coxsackie Elementary – 50 students 4th graders, 25 adults**

**Latitude N 42 degrees 22.2' Longitude W 73 degrees 47.756"**

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 **Location:** River front park with parking area, boat launch, picnic

**Area:** Parking area and cement boat launch with fishing and picnic area

**Surrounding Land Use:** Forested 15%, Beach 30%, parking area, cement boat launch, picnic area and fishing 55%

**Sampling Site:** Beach, covered with vegetation, rip rap altered banks, melt bulkheads

**Plants in area:**

**Water depth**:

**River Bottom** –rocky bottom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** |  |  | ***Comments*** |
| ***Physical***  |  |  |  |  |
| Air Temperature | 10:20 AM10:45 AM11:30 AM | 59.2°F61.6 °F60 °F | 15°C16.4°C15.5 |  |
| Wind Speed | 10:20 AM | 0.6 mph | N |  |
| Cloud Cover | 10:20 AM partly cloudy 26-50% | 12:15 PMovercast>75% | Water  | Calm |
| Weather today | overcast  |
| Weather recently | Dry and warm |
| ***Water Temperature*** | 9:57 AM11:00 AM11:30 AM | 18°C1818 | 64°F6364 |  |
| ***Turbidity-****Long Tube* | 53 cm57 cm43 cm | Avg – 51 cm |  |  |
| ***Chemical*** |  |  |  |  |
| DO (Hach drop count)  | 9:57 AM 10:27 AM11:30 AM | 8 ppm12 ppm13 ppm | 18 C18C18C | 85 %120 %120 % |
| pH | NR |  |  |  |
| Salinity YSI meter | 10:30 AM11:00 AM | 0.1 ppt0.1 ppt | 100 ppm 100 ppm | 1.4 on LR quantabs 61 ppm TS |
| ***Fish Catch*** | **Number**  | **Species** | **Length** |  |
| 10:20-11:40 AM | 112662 | Red breasted sunfishShinerStriped BassPumpkinseedKillifish | 12 cm9 cm7 cm5-7 cm4-8 cm | **DIV 5****TOTAL 72** |
| ***Tides –***  | 10:20 AM 10:57 AM12:09 PM | 61 cm47 cm5 cm | FallingFalling |  |
| ***Currents - Direction*** | 10:20 AM10:45 AM 10:57 AM11:30 AM | 198 cm/30secs91 cm/30 secs104 cm/30 sec91 cm/30 secs | 6.6 cm/sec3 cm/sec3.5 cm/sec3 cm/sec | EbbEbbEbbEbb |
| ***CORE***  | **Condition** | **Rare** | **Common** | **Abundant** |
| *4 cores – average length 15 cm* | H2S smell15 cm | PebblesLeavesWoodShells | Clay - bottomMud - topSandGravel |  |
| *Observations* | Water chestnut seeds, bits of brick on beachFew seagulls, flock of geese flying over going south |
| *Commercial Shipping* | 8:46 AM | UBC |  | South – light  |
|  | 9:38 AM  | Tug pushing barge | White and teal | South - loaded |
| *Recreational Shipping* | 10:10 AM | Speedboat | Black | South |
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