**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 AM  10:45 AM  11:30 AM | 59.2°F  61.6 °F  60 °F | 15°C  16.4°C  15.5 |  | | |
| Wind Speed | 10:20 AM | 0.6 mph | N |  | | |
| Cloud Cover | 10:20 AM  partly cloudy  26-50% | 12:15 PM  overcast  >75% | Water | Calm | | |
| Weather today | overcast | | | | |
| Weather recently | Dry and warm | | | | |
| ***Water Temperature*** | 9:57 AM  11:00 AM  11:30 AM | 18°C  18  18 | 64°F  63  64 |  | | |
| ***Turbidity-***  *Long Tube* | 53 cm  57 cm  43 cm | Avg – 51 cm |  |  | | |
| ***Chemical*** |  |  |  |  | | |
| DO (Hach drop count) | 9:57 AM  10:27 AM  11:30 AM | 8 ppm  12 ppm  13 ppm | 18 C  18C  18C | 85 %  120 %  120 % | | |
| pH | NR |  |  |  | | |
| Salinity YSI meter | 10:30 AM  11:00 AM | 0.1 ppt  0.1 ppt | 100 ppm  100 ppm | 1.4 on LR quantabs  61 ppm TS | | |
| ***Fish Catch*** | **Number** | **Species** | **Length** |  | | |
| 10:20-11:40 AM | 1  1  2  6  62 | Red breasted sunfish  Shiner  Striped Bass  Pumpkinseed  Killifish | 12 cm  9 cm  7 cm  5-7 cm  4-8 cm | **DIV 5**  **TOTAL 72** | | |
| ***Tides –*** | 10:20 AM  10:57 AM  12:09 PM | 61 cm  47 cm  5 cm | Falling  Falling |  | | |
| ***Currents - Direction*** | 10:20 AM  10:45 AM  10:57 AM  11:30 AM | 198 cm/30secs  91 cm/30 secs  104 cm/30 sec  91 cm/30 secs | 6.6 cm/sec  3 cm/sec  3.5 cm/sec  3 cm/sec | Ebb  Ebb  Ebb  Ebb | | |
| ***CORE*** | **Condition** | **Rare** | **Common** | **Abundant** | | |
| *4 cores – average length 15 cm* | H2S smell  15 cm | Pebbles  Leaves  Wood  Shells | Clay - bottom  Mud - top  Sand  Gravel |  | | |
| *Observations* | Water chestnut seeds, bits of brick on beach  Few 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 | |
|  |  | | | | | |