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

**(Saltfront ~ RM 83)**

**RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County**

**Jim Herrington, Norrie Point Environmental Center**

**34 High School 12th graders, 4 adults**

**Shannon Considine, Poughkeepsie High School**

**18 High School students**

**41.8319 N – 73.9425W**

 **Location:** Sampling done Norrie Cove and the SW corner of Norrie Point Env. Center Patio. East side of Hudson far from the main channel in a protected cove

**Area:** Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove, facing south onto the HR, bordered by RR embankment, parking lot & the environmental center.

**Surrounding Land Use:** 90% Forested; 10% Parking lot, road and building

**Sampling Site:** Front banks altered, Rip Rap. Cove is very muddy with some riprap and west side is rocky

**Shoreline:** beach area, shore with bulkhead, shoreline rip rap,banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove, piping entering river area

**Plants in area:** All water chestnut had died back leaving only detritus; some water milfoil (several big patches 10X10 ft.; Some water celery in rocky river side but none in cove.

**River Bottom** –50% muddy and 50% rocky

**Water Depth –** 2 ft.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |  Time |  |  |  |
| Air Temperature | NR | °C | °F |  |
| Wind Speed | NR |  |  |  |
| Cloud Cover |  |  |  |  |
| Weather today |  |
| Weather recently | Dry and warm |
| Water Surface |  Choppy |
| ***Water Temperature – cloudy***  | AM | 13°C | 55°F |  |
| ***Turbidity*** | **TIME** | **Cm**  |  |  |
|  | NR |  |  |  |
| ***Chemical*** |  |  |  |  |
| **DO - (Hach drop count)** | NR |  |  |  |
| **pH – indicator solution** | ***Time*** | **Reading #1** | **Reading #2** | **Average** |
|  | ***NR*** |  |  |  |
| **Salinity** | **Time** | **Chl-units** | **Chloride** | **Total Salinity** |
| **Quantabs** | **NR** |  |  |  |
| ***Fish Catch –*** ***~50 ft. net*** |  |  |  |  |
| ***American Eel***  | **1** | **FISH** | **DIV 9**  |  |
| ***Banded Killifish*** | **6** |  | **TOTALS 136** |  |
| ***Goldfish***  | **25** |  |  |  |
| ***Bluegill Sunfish*** | **36** |  |  |  |
| ***Pumpkinseed*** | **16** |  |  |  |
| ***Red breasted Sunfish*** | **3** |  |  |  |
| ***Tesselated Darter*** | **7** |  |  |  |
| ***Spottail Shiner***  | **37** |  |  |  |
| ***Smallmouth Bass*** | **1** | **MACR** | **DIV 1** |  |
| ***Blue Crab*** | **4** |  | **TOTALS 4** |  |
| **Tides** | ***time*** | ***cm*** | ***Rising/Falling*** | ***Cm difference***  |
|  | NR |  |  |  |
| ***Currents*** | ***Times*** | ***Cm/30 sec*** | ***Cm/sec*** | ***Kts – N/S*** |