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

**RIVER MILE 61E**

**Riverfront Park, City of Beacon, Dutchess County**

**Scenic Hudson**

**Leah Horn, Haldane Middle School, 7h grade (30), 5 adults**

**Latitude 41°30’ Longitude 73°55’**

**Location:** Long Dock Park, Beacon, Dutchess County NY

**Area:** Long Dock Park - A former brownfield now public park used for fishing, launching kayaks, picnics, fieldtrips, enjoying scenic views of the Hudson River, Hudson Highlands and Hudson Valley. Most of the shoreline on the south side is lined with trees.

**Surrounding Land Use:** 25% forest, 15% beach, 60% other

**Sampling Site:** beach area rocky with lots of sand, water chestnut and grass

**Plants in water:** water chestnut

**Bottom Surface:** muddy, rocky bottom

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading*** | | ***Comments*** |
| ***Physical*** |  |  |  | |  |
| Air Temperature | 10:05AM  10:30AM  1:00 PM  1:30 PM | 14°C  14  16  20 |  | |  |
| Wind Speed | 10:05AM  10:30AM  1:00 PM  1:30 PM | Beaufort#3  Beaufort#2  Beaufort#3  Beaufort#4 |  | | Partly cloudy  Partly cloudy  Partly cloudy  Partly cloudy |
| Cloud Cover | overcast |  |  | |  |
| Weather today | Some light rain throughout the day | | | | |
| Weather recently | Cool and fall like – rain off and on | | | | |
| ***water*** | Choppy, rough and cold | | |  | |
| ***Water Temperature*** | **Time** | **Test one** | |  |  |
|  | 9:40AM  10:20 AM  11:40 AM  12:24 PM | 15°C  15.6  16  16.3 | |  |  |
| ***Turbidity*** | **Time** | **NTU** | | **cm** |  |
| ***long site tube converted NTU to cm*** | 9:40AM  10:20 AM  11:40 AM  12:24 PM | 20  14  19  50 | | 33 cm  42 cm  35 cm  15 cm |  |
| ***Chemical*** | ***Time*** | ***DO*** | | ***Temp*** | ***Saturation*** |
| DO  (drop kit) | 10:05AM  10:30AM  1:00 PM  1:30 PM | 8 ppm  12 ppm  10 ppm  11 ppm | | 15°C  17  15  15 | 80%  120%  98%  110% |
| pH –  ***color match(Hach)*** | 10:05AM  10:30AM  1:00 PM  1:30 PM | 7.4  7.2  7.5  7.5 | |  |  |
| Salinity – Quantab LR | 10:05AM  10:30AM  1:00 PM  1:30 PM | 158 ppm Chl-  162  176  76 | | 285 TS  293  318  137 | TS = Total Salinity  (falling tide) |
| ***Fish Catch***  *seine 30 feet* | ***Number Caught*** | ***Species*** | | ***Size of largest*** |  |
|  | 2 | Striped Bass | |  | **Diversity -10** |
|  | 1 | American Eel | | 30 cm | **Total Catch -79** |
|  | 1 | Blueback Herring | | 9.5 cm |  |
|  | 3 | Spottail Shiner | | 12 cm |  |
|  | 11 | White Perch | | 14 cm |  |
|  | 1 | Banded Killifish | | 11 cm |  |
|  | 3 | Pumpkinseed | | 18 cm |  |
|  | 25 | Bay Anchovy | | 10 cm |  |
|  | 2 | Atlantic Silversides | | 9 cm |  |
|  | 30 | Herring | |  |  |
| ***Tides*** | 10:05AM  10:30AM  1:00 PM  1:30 PM | 12 inches  8 inches  7 inches  5 inches\* | | **Falling the whole time of sampling** | |
| ***Currents –*** | 10:05AM  10:30AM  1:00 PM  1:30 PM | 0.2 ft/sec  0.4 ft./sec  still | | 6 cm/sec  12 cm/sec |  |
| ***Sediment Core*** | **Length - describe** | **Rare** | | **Common** | **Abundant** |
| ***Shipping*** |  | |  | |  |