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

**RIVER MILE 123**

**River Front Park, Coxsackie**

**Sarah O’Connor, Albany Academy for Girls – 30 students 5th graders, 3 adults**

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

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

**Area:** Parkign 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

**Plants in area:**

**Water depth**:

**River Bottom** –rocky bottom

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Group 1*** | ***Group 2*** | ***Group 3*** | ***Comments*** | |
| ***Physical*** | **9:30-10:30 AM** | **10:45-11:45 AM** | **12:30-1:30 PM** |  | |
| Air Temperature | 9°C | 11°C | 16°C |  | |
| Wind Speed | Beaufort 1  SW | Beaufort 1  SW | Beaufort 0-1  SW |  | |
| Cloud Cover |  |  |  |  | |
| Weather today | Wet and humid – rain | | | |
| Weather recently |  | | | |
| ***Water Temperature*** | 13°C | 10°C | 12.5°C |  | |
| ***Turbidity-***  *Long Tube* | 23.5 cm  56.5 cm  ***Avg – 40 cm*** | 87.5 cm  72.5  90.25  ***Avg 83 cm*** | 88 cm  59.9\*  63  ***Avg 70.3 cm*** | \*2 boats went by between 1st and following buckets | |
| ***Turbidity Secchi*** | 230 cm | 220 cm | 270 cm |  | |
| ***Chlorophyll*** | 0.6 | 0.2 | 0.1 |  | |
| ***Chemical*** |  |  |  |  | |
| DO (Hach drop count) | 10 ppm\* | 11 ppm\* | 10 ppm\* | \*air bubble in each sample | |
| pH | NR |  |  |  | |
| Salinity Quantabs LR | 43 ppm Cl-  72 ppm TS | 43 ppm Cl-  78 ppm TS | 50 ppm Cl-  90 ppm TS |  | |
| ***Fish Catch*** | **10-10:45 AM** | **11:45-1200** | **1:00-1:45 PM** | ***Comment*** | |
|  | 1 Shiner  1 Herring  1 Killifish | 2 Shiner  1 Herring  1 baby perch | 1 Shiner  2 Butterfish  1  Bay Anchovy | **Diversity 5**  **Totals 11** | |
|  | **Div 3 /Total 3** | **Div – 3/Total 4** | **Div 3/Total 4** |  | |
| ***Tides –*** | 13 cm start | Falling | Falling |  | |
| ***Currents - Direction*** | Ebbing | Ebbing | Ebbing |  | |
| ***CORE*** | **Group 1** | **Group 2** | **Group 3** |  | |
| *Smell* | Fishy  Dirt/mud smell | Dirt  Fishy | fishy |  | |
| *Texture* | Rocky,  smooth,  wet  chunky | Bumpy  Rocky  Muddy | Bumpy  rocky |  | |
| *Color* | Brown  Grey  Reddish/orange  Dark green | Red/orange  Brown  Black  Gray | Brown  Black  Gray  Red |  | |
| *Composition* | Pebbles  Rocks  Shells  Mud  Tiny brick flecks | Dirt  Rocks  Pebbles | Rocks  Mud  water |  | |