**Day in the Life of the Hudson River 10/10/13 Data**

**RIVER MILE 55**

**Little Stony Point**

**Pete Salmansohn, Andrea Maasik, of the Hudson Highlands Land Trust**

**Mark Patinella, Leah Horn additional teachers/chaperones,**

**18 Haldane Middle (8th) & 20 High (12th) Schools total 38 students**

**41°N - 73°W**

|  |  |
| --- | --- |
|  |  |

**Location:** Little Stony Point beach, Cold Spring, Putnam County

**Area:** On the beach at Little Stony Point, facing Beacon across from Storm King

**Surrounding Land Use:** 100% forested & beach

**Sampling Site:** beach area, concrete, docking

**Plants in area:**

**Water depth**:

**River Bottom** –sandy

**SAMPLING TIMES 9AM to 1PM**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | | | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  | | |  |  |
| Air Temperature | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | | 10°C  12.8°C  8.9 °C  12.2 °C | | |  |  |
| Wind Speed | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | | 17-21 kts  11-16 kts  17-21 kts  11-16 kts | | | Cloudy  Cloudy  Light rain  cloudy |  |
| Cloud Cover | Overcast | |  | | |  |  |
| Weather today | Overcast, drizzle rain | | | | | | |
| Weather recently | Fall like | | | | | | |
| ***Water*** |  | | | | | | |
| ***Water Temperature*** | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | 14°C  20.2  20.5  18 | | |  | |  |
| ***Turbidity –*** | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | 100 JTU  40 JTU  55 JTU  110 JTU | | |  | |  |
| ***Chlorophyll*** |  |  | | |  | |  |
| ***Chemical*** |  |  | | |  | |  |
| DO  (ampules) | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | 8 mg/L  7  8  7 | | | 14°C  20.2  20.5  18 | | 85% saturated  75  75  70 |
| pH | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | 8  8  8  8 | | |  | |  |
| Salinity – quantabs | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | 8.4 quantab #  9.0 quantab #  8.8 quantab #  8.2 quantab # | | | ppm Cl- | | ppm total salinity |
| ***Fish & Crab Catch*** | ***Time*** | ***Species*** | | | ***Number*** | | ***Size*** |
| **Diversity- 3** | 10:00 AM | White Perch | | | 1 | | 4 inches |
| **Totals - 4** |  | Darters | | | 2 | |  |
|  |  | Blue Crab | | | 1 | | Male |
| **Diversity- 3** | 10:30 AM | Striped Bass | | | 1 | | 2.5 inches |
| **Totals - 2** |  | Blue Crab | | | 1 | | Male |
| **Diversity – 6** | 11:18 AM | White perch | | | 8 | | 7.5 inches |
| **Totals** - **15** |  | Killifish | | | 1 | |  |
|  |  | Pumpkin seed | | | 2 | |  |
|  |  | American eel | | | 1 | |  |
|  |  | Darter | | | 2 | |  |
|  |  | Blue Crab | | | 1 | | Male |
| **Diversity- 4** | 12:02 PM | Darter | | | 1 | |  |
| **Totals - 4** |  | Smallmouth Bass | | | 1 | |  |
|  |  | Blue Gill | | | 1 | |  |
|  |  | Blue Crab | | | 1 | | Male |
| 2 | **TOTAL** | **DIVERSITY - 9** | | | **NUMBERS** | | **25** |
| ***Tides*** | 10:00AM  10:30AM  11:18AM  12:02PM | 19 cm  22 cm  38 cm  47 cm | | | Rising | |  |
| **Currents** | **Time** | **Cm/30 sec** | | | **Cm/Sec** | |  |
|  | 10:00 AM  10:30 AM  11:18 AM  12:02 PM | 70cm/sec  97 cm/sec  95.4 cm/sec  247 cm/sec | | | 2.3 cm/sec  3.2 cm/sec  3.2 cm/sec  8.2cm/sec | |  |
| ***Core Description*** | ***Length*** | ***Rare*** | | ***Common*** | ***Abundant*** | | ***Notes*** |