**Day in the Life of the Hudson River 10/29/14 Data**

**(Salt Front RM 65.3)**

**RIVER MILE 55**

**Little Stony Point**

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

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

**30 Haldane Middle (7th) and 6 chaperones**

**41°25’N - 73°58’W**

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

**Area:** On the beach at Little Stony Point, facing Beacon across from Storm King, swimming, picnics, boating, jogging and fishing are main uses

**Surrounding Land Use:** 80% forested & 20% beach

**Sampling Site:** beach area, concrete, dockingwith pier

**River Bottom** –sandy

**SAMPLING TIMES 9AM to 1PM**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | | | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  | | |  |  |
| Air Temperature | Not recorded | |  | | |  |  |
| Wind Speed | 9:45 AM  10:20 AM  10:50 AM | | Beaufort 1  Beaufort 1  Beaufort 1 | | | South | Overcast  Mostly cloudy  Mostly cloudy |
| Cloud Cover | Overcast | |  | | |  |  |
| Weather today | No rain | | | | | | |
| Weather recently | Fall like, some rain | | | | | | |
| ***Water*** | calm | | | | | | |
| ***Water Temperature*** | 10:19AM  10:53 AM  1:50 PM | 15°C  15  15 | | |  | |  |
| ***Turbidity –*** | 10:27 AM  10:28 AM | 50 JTU  70 JTU | | |  | |  |
| ***Chemical*** |  |  | | |  | |  |
| DO  (ampules) | 10:19AM  10:53 AM  1:50 PM | 8 mg/L  8  7 | | | 15°C  15.5  15 | | 80% saturated  80%  68% |
| pH – wide range pH strips | 10:19AM  10:53 AM  1:50 PM | 7-8  8  8 | | |  | |  |
| Salinity – quantabs -LR |  | 1.4 reading | | | 35 ppm Cl- | | 81 ppm total salinity |
| ***Fish & Crab Catch*** | ***Time*** | ***Species*** | | | ***Number*** | | ***Size*** |
| **Diversity-6** | **Group 1** | White Perch | | | 1 | |  |
| **Totals - 29** |  | Hogchoker | | | 2 | | 1 inch |
|  |  | Tessellated Darter | | | 10 | | 2 inch |
|  |  | Spottail Shiner | | | 10 | | 2.5 inch |
|  |  | Catfish | | | 5 | | 1.5 inch |
|  |  | Herring | | | 1 | |  |
| **Diversity- 4** | **Group 2** | White Catfish | | | 2 | | 2.5 inch |
| **Totals - 12** |  | Spottail Shiner | | | 6 | | 4 inch |
|  |  | Pumpkin Seed Sunny | | | 2 | | 3 inch |
| **Plus 1 crab** |  | Tessellated Darter | | | 2 | | 3 inch |
|  |  | Blue Crab | | | 1 | | 1.5 inch |
| **Diversity - 2** | **Group 3** | White Perch | | | 2 | |  |
| **Totals - 27** |  | Herring | | | 25 | |  |
| **Plus 3 crab** |  | Blue Crab | | | 3 | |  |
| **GRAND** | **TOTAL** | **DIVERSITY – 7 fish + 1 crab** | | | **NUMBERS** | | **68 fish + 4 crab** |
| ***Tides – tide stick*** | 9:54 AM  10:28 AM  10:57 AM | 50 cm  40 cm  50 cm | | | Set  Falling  Rising | |  |
| **Currents** | **Time** | **Cm/sec** | | | **kts** | |  |
|  | 9:59 AM  10:36 AM  10:46 AM | 19.7 cm/sec  21.6 cm/sec  13.5 cm/sec | | | 0.38 kts  0.42 kts  0.26 kts | | Flood  Flood  Flood |
| ***Core Description*** | ***Length*** | ***Rare*** | | ***Common*** | ***Abundant*** | | ***Notes*** |
| ***Group1*** |  |  | | Mud | Sand  Gravel  Pebbles | |  |
| ***Group 2*** |  | Mud  Pebbles | |  | Sand  Gravel | |  |
| ***Group 4*** |  | Mud | | Sand  Gravel | Pebbles | |  |
| ***Group 3*** | ***Unable to do this rotation*** | | |  |  | |  |
| ***Traffic*** | None observed |  | | |  | |  |
| ***Other Observations*** | Water chestnut seeds, rocks, sand, grass, shells, birds, insects, driftwood, birds and squirrels | | | | | | |