**Day in the Life of the Hudson River 10/21/14 Data**

**(Salt Front RM 64.3)**

**RIVER MILE 35E**

**Croton Point Park, Croton on Hudson**

**Cheri Baron, Our Montessori School - (52) 1st-6th graders, 12 adults**

**Being assisted by Deborah Ashley, PNWBOCES (11) 12th graders, 1 adult**

**Latitude 41degrees 11.174’N Longitude 73 degrees 53.913’W**

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 **Location:** Mother’s Lap, Croton Park NY

**Area:** Rocky beach surrounded by rising forested land and small yard and driveway

**Surrounding Land Use:** Forested 70%, Beach 30%

**Sampling Site:** Beach area with with raprap @ north end, collected wood debris in area

**River Bottom** – sandy bottom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** |  | ***Comments*** |
| ***Physical***  |   |  |  |  |
| **Air Temperature** | 10:45 AM | 62°F17°C |  |  |
| **Wind Speed** | **Time** | **Beaufort #** |  |  |
| Cloud Cover | Mostly cloudy |  |  |  |
| Weather today | 10:45 AM sprinkled |
| Weather recently | Fall like - rain |
| Water  | Choppy |
| ***Water Temperature*** | 11:10 AM11:20 AM | 15°C15.9°C |  |  |
| ***Turbidity –*** **Turbidity meter** | 11:20 AM | 70.1 NTU |  |  |
| ***Chemical***  | ***TIME*** | ***Reading*** |  |  |
| ***DO*** | 11:53 AM12:50 PM | 9 ppm9 ppm |  16 °C16 °C | 90% saturated |
| **pH (litmus paper)** | 11:10 AM11:10 AM11:40 PM | 656.5 |  |  |
| ***Salinity -***  | 11:10 AM11:20 AM | 9.2 ppt9.2 ppt |   |  |
| ***Tides*** |  |  |  |  |
| ***Currents*** |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Fish –***  | ***Number*** | ***Species*** |  | ***Totals*** |
| 10:50 AM | 14 | Atlantic Silversides | 3 inches | **Diversity 3** |
|  | 1 | Herring | 3 inches | **Total Catch 35** |
|  | 20 | Bay Anchovies | 2 inches | **PLUS 1 crab** |
|  | 1 | Blue Crab (M) |  |  |
| ***Core Sample*** | ***Length*** | ***Abundant*** | ***Common*** | ***Rare*** |
|  | 8 inchesH2S smell | Sand | ClayMudGravelPebbles | Macro-invertebratesLiving Vegetation |
| ***Other*** | We saw dragonflies |