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

**(Salt Front RM 69.3)**

**RIVER MILE 30.5**

**Kingsland Point Park**

**Chris Adamo & Leana Peltier, Sleepy Hollow High School**

**100 students 11th & 12th graders, 3 adults**

**41**°**09N and 73**°**86W**

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**Location:** Kingsland Point Park, Sleepy Hollow, Westchester

**Area:** Waterfront beach area on front of park

**Surrounding Land Use:** Parkland with open fields surrounded by trees 75%, Beach 25%

**Sampling Site:** Beach, shoreline riprap (rocks), concrete bulkhead

**Plants in water:** no

**Plants in area:** plants and poison ivy

**Water depth**: 1-3 meters

**River Bottom** – sandy, muddy

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** |  | | ***Comments*** |
| ***Physical*** |  | |  |  | |  |
| **Air Temperature** | 10:00 AM | | 14°C  16  15 | 51.2 °F  60.8  59 | | Average: 15°C  57 °F |
|  | 10:30 AM | | 18°C  20  19 | 64.4 °F  68  66.2 | | Average:  18.6  66.2 |
|  | 11:00 AM | | 18°C  20  19 | 64.4 °F  68  66.2 | | Average:  18.6  66.2 |
| **Wind Speed** | **Beaufort #** | | **Mph** | **Direction** | |  |
|  |  | | 1.8 | West | |  |
| Cloud Cover | Mostly cloudy | |  |  | |  |
| Weather today | Rain off and on | | | | | |
| Weather recently |  | | | | | |
| ***Water surface*** | choppy |  | | |  |  |
| ***Water Temperature*** | 10:00 AM | 68°F  20°C | | |  |  |
|  | 10:40 AM | 67°F  19°C | | |  |  |
|  | 10:45 AM | 68°F  20°C | | |  |  |
| ***Turbidity - secchi*** | 10:23 AM | 20 cm  20 cm | | |  |  |
| ***Seining –*** *20 ft. X 4 ft. X 20 ft. pull* | **Total** | **Species** | | | **Length** |  |
| ***Total Fish 16*** | 1 | Winter Flounder | | | 3 inches |  |
| ***Total Fish Diversity 5*** | 7 | Striped Bass | | | 4 inches |  |
|  | 5 | Atlantic Silversides | | | 4 inches |  |
|  | 1 | Killifish | | | 3 inches |  |
|  | 2 | Unknown | | | 3 inches |  |
| *Macroinvertebrate* | 1 | Blue crab | | | juvenile |  |
| ***Chlorophyll*** |  |  | | |  |  |
| ***Chemical*** |  |  | | |  |  |
| DO -  Other –green kit | 10:30 AM | 17°C  16°C | | | 2 ppm |  |
| pH – litmus paper | 11:03 AM | 6  7  7 | | |  | 6.7 |
| ***Salinity – refractometer*** | 10:30 AM | 10 ppt T.S. | | |  | |
| ***Nitrates –*** *green kit* | 11:31 AM | 5 ppm  5 ppm  5 ppm | | |  | |
| ***Phosphates*** | 10:16 AM | 1.5 ppm  1.5 ppm  1.0 ppm | | | 1.33 ppm Average | |
| ***Tides\**** | ***Time*** | ***Tide Stick*** | | |  | |
|  | 10:04AM | 14 cm | | |  | |
|  | 10:30AM | 20 cm | | | Rising | |
|  | 10:45AM | 21 cm | | | Rising | |
| ***Currents*** |  |  | | |  | |
| ***Traffic*** |  |  | | |  | |