Day in the Life of the Hudson River 10/20/16 Data

(Salt Front ~RM 80)

**RIVER MILE -1**

**Governor’s Island, Upper NY Bay/Buttermilk Channel**

**Roy Arrezzo - New York Harbor School PM**

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**30 students 10th graders, 2 adults**

**Latitude N 40°41’29” - Longitude W074°01.14’**

**Location:** Pier 101, NE Governor’s Island – Upper NY Bay

**Area:** Pier along waterfront of the island

**Surrounding Land Use:** 100% converted to public access programs (education, boating, recreation)

**Sampling Site:** Pier, shoreline is bulkheaded

**Plants in area:** None

**Water depth**: surface samples

**Times:** Data collected throughout the day

**High Tide**: 12:16 PM – LT 6:02 AM

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| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 1:20 PM | | C  F |  |  |
| Wind Speed | 1:20 PM | | windy | 8.2 mph | Beaufort #4 |
| Cloud Cover | Overcast >90% | | Altostratus and Stratocumulus |  |  |
| Weather today | Cloudy, Mild temperature, chance of showers | | | | |
| Weather recently | cool | | | | |
| ***Water depth*** | 5 meters deep | | | | |
| ***Water Temperature*** | 1:20 PM | 19 C  F | |  |  |
| ***Turbidity – turbidity tube*** | 1:20 PM | 90 cm | |  |  |
| ***Chlorophyll*** | 0.3 |  | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (chemmet kit) | 1:20 PM | 5.7 mg/L | | 19 C | 60% saturation |
| pH – Lamotte wide range pH kit | 1:20 AM | 7.8 | |  |  |
| Salinity  (Refractometer) | 1:20 PM | 27 ppt | |  |  |
| ***Tides*** | HT 12:16 PM | Flooding end SLACK | |  |  |
| ***Currents*** | NE | Ebbing | | 6 kts |  |
| ***Organisms – oyster traps*** | Mud crabs | Green crabs | | Blue Crab | Oyster drills |
|  | Oyster toad fish | Black fish | |  |  |