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

**(Salt front ~RM 83)**

**RIVER MILE 9**

**West Harlem Piers @ 125th street**

**Ben Raikes, The School at Columbia, 57 students 6th grade, 10 adults**

**Lat 40.8197, Lon. -73.9608**

**Location:** Pier 125, is an educational pier used for boating and fishing

**Area:** Pier –sampled at mid pier away from street and bulkhead

**Surrounding Land Use:** 100% Industrial Commercial

**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged concrete bulkhead, vegetation

**Plants in area:** No plants

**Water:** Calm but sometimes choppy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 10:00 AM1:00 PM | 22°C25°C | 71°F77°F |  |
| Wind Speed | 10:00 AM | 7 mph  | NW |  |
| Cloud Cover |  | Mostly cloudy | 51-75%  |  |
| Weather today | no rain |  | ***Water surface*** | Calm |
| Weather recently | Warm and dry |
| ***Water Temperature*** | 10:00-1:00 PM | \*7°C to11°C | \*Very cold | \*Feels the thermometers were inaccurate |
| ***Turbidity -*** * ***Secchi***
* ***Long tube***
 | AM | 54, 52, 54 cm38, 37, 34 cm |  | Average 53cm72.6 cm |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO – tablets | 12:00 PM | 8 ppm | 20°C | 88 % - |
| pH - tablets | 11:00 AM  | 777 |  | Average 7 |
|  Salinity - hydrometer | 11:00 AM  | 20 ppt2218 |  | Average 20 ppt |
| ***Fish – rod and reel*** | 11:30 AM | 1 | Striped Bass | 30.48 cm |
|  |  | **TOTAL 1** | **DIV 1** |  |
| ***Tides - H2O depth***  | ***Time*** | ***Rise/Fall/Unch*** | ***Height cm*** |  |
| ***\*Measuring from height of top rail of pier to water surface. Larger #s equals lower tide..***  | 10:30 AM10:50AM11:15 AM12:00 PM12:30 PM12:47 PM | 1st readingRisingRisingRisingRisingFalling  | 99 cm98 cm92 cm84 cm79 cm82 cm |  |
| ***Currents******\*Readings were taken close to the shore and we were limited by how far we could throw.***  | ***Time***10:25 AM10:45 AM12:00 PM12:30 PM  | ***Cm/’X’ sec***447cm/25 sec300 cm/58 sec300 cm /47 sec300 cm /81 sec | ***Cm/sec***17.88 cm/sec5.17 cm/sec6.38 cm/sec3.7 cm/sec | ***N/S - E/F***N - FloodN - FloodN - FloodN - Flood |