**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

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| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:00 AM  1:00 PM | | 22°C  25°C | 71°F  77°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 to  11°C | | \*Very cold | \*Feels the thermometers were inaccurate |
| ***Turbidity -***   * ***Secchi*** * ***Long tube*** | AM | 54, 52, 54 cm  38, 37, 34 cm | |  | Average 53cm  72.6 cm |
| ***Chemical*** | **Time** | **ppm** | | **Temp** | **% Sat** |
| DO – tablets | 12:00 PM | 8 ppm | | 20°C | 88 % - |
| pH -  tablets | 11:00 AM | 7  7  7 | |  | Average 7 |
| Salinity - hydrometer | 11:00 AM | 20 ppt  22  18 | |  | 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 AM  10:50AM  11:15 AM  12:00 PM  12:30 PM  12:47 PM | 1st reading  Rising  Rising  Rising  Rising  Falling | | 99 cm  98 cm  92 cm  84 cm  79 cm  82 cm |  |
| ***Currents***  ***\*Readings were taken close to the shore and we were limited by how far we could throw.*** | ***Time***  10:25 AM  10:45 AM  12:00 PM  12:30 PM | ***Cm/’X’ sec***  447cm/25 sec  300 cm/58 sec  300 cm /47 sec  300 cm /81 sec | | ***Cm/sec***  17.88 cm/sec  5.17 cm/sec  6.38 cm/sec  3.7 cm/sec | ***N/S - E/F***  N - Flood  N - Flood  N - Flood  N - Flood |