**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE -4.2**

**Bayridge American Veterans’ Memorial Pier**

**N 40. 38’22.-416 , W-74 .2’18.4308**

**Alicia Smith & International School of Brooklyn**

**22 Fifth graders, 4 adults**

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**View from the pier. Owl Sewage treatment plant visible in the foreground.**

**Location:** Pier American Veterans’ Memorial Pier, by highway, Park, 2 water treatment plants

**Area:** Pier – bulkhead – mainly concrete & wood. Two parks – Owl’s head and Shore Road Park

**Surrounding Land Use:** 70% urban/residential, 10% Industrial Commercial, 20% park

**Sampling Site:** Recreational pier – rocks near the edge, banks altered /riprap, all hard edged, steep wall dividing water from land, pipe entering water from treatment plant

**Shoreline:** Rocky

**Depth:** could not see bottom

**Plants in area:** No plants

**Water:** Calm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 11:21 AM11:45 AM12:06 PM12:37 PM | 18.9°C17.2°C18.3°C19.8 °C | 66 °F63 °F65°F68°F |  |
| Wind Speed | 11:21 AM | Beaufort 3  | 9 kts | E/SE |
| Cloud Cover | 11:21-12:31  | Clear all day  | <25% cloud cover all day |  |
| Weather today | Clear no rain, warm and windy |  | ***Water surface*** |  |
| Weather recently | No rain for past 3 days. Sunday 10/18 unusually cold and windy. Monday 10/19 seasonal temperatures but still a bit windy.  |
| ***Water Temperature*** | 11:21 AM11:42 AM12:26 PM | 18°C18°C18°C  | 64 °F64 °F64 °F | <1 ft. depth, shade from pier, water choppy |
| ***Turbidity*** |  |  |  |  |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO Drop count kit  | 11:21 AM | 7 | 18°C | 72% |
| pHmeter | 11:21 AM11:42 AM12:20 PM12:34 PM  | 7.957.967.967.96 |  |  |
| Salinity -hydrometer | 11:21 AM11:42 AM12:20 PM12:34 PM | 25.5 ppt26 ppt25 ppt25 pptå |  |  |
| ***Fish Catch*** | Time | Species | # caught | Size |
|  |  |  |  |  |
| ***Tides - water depth***  | ***Time*** | ***Distance to water***  | ***Rate of change*** | ***Flood or Ebb***  |
| ***Measuring down from pier using a secchi disk*** | 11:20 AM11:40 AM11:56 AM12:15 PM12:30 PM | 300 cm225 cm275 cm350 cm | FloodingEbbingEbbing |  |
| ***Currents*** | ***Time*** | ***Cm/30 sec*** | ***Cm/sec*** | ***Knots &******Ebb/Flood*** |
|  | 11:21 AM | 1676.4 | 55.88 | 1.09kts F |
|  | 11:45 AM | 411.48 | 18.75 | 0.24kts F |
|  | 12:06 PM | 701.04 | 23.37 | 0.45kts F |
|  | 12:31 PM | 792.48 | 0.51 | 0.51kts F |
| Note on recording sheet: Wind blowing east, current moving east, tidal flow moving east up the east river. Ebb on the Hudson.  |
| ***Traffic- Commercial***  | 11:19-12:40  | 17-20 boats visible in area  | Mainly cargo & ferry  | 12:02 – 1 police boat |
| ***Recreational Traffic***  | 11:19 AM11:19 AM 12:08 PM12:26 PM | Sailboat speedboat Speedboatsailboat |  |  |
| ***Observations***  | Observed gatherings of ducks and gulls. Oyster cage hanging from pier into the water |