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

**(Salt Front RM 69.3)**

**RIVER MILE 61W**

**Newburgh Landing, Newburgh**

**Jim Uhlig, Storm King School, 12th grade – 8 students**

**41.509 degrees Latitude 74.00 degrees Longitude**

**Location:** Newburgh Landing, Newburgh waterfront, Orange County NY

**Area:** Newburgh waterfront near the Torches, piers and riprap

**Surrounding Land Use: 100%** Urban/Industrial

**Sampling Site Shoreline:** shoreline bulkheaded, large rip rap, debris in area such as broken concrete

**Plants in area:**

**Water depth:** 15 ft.

**Bottom Surface:** rocky and gravelly

**Plants in water –**0%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 2:00 PM | | 63°F |  |  |
| Wind Speed | 2 Beaufort | |  |  |  |
| Cloud Cover | Overcast | |  | Water Choppy | |
| Weather today | No rain but overcast and cool | | | | |
| Weather recently | Some rain previous 2 days | | | | |
| ***Water Temperature*** | 1:55 PM | 16°C  15°C  15°C | |  | Avg. 15.34°C |
| ***Water calm*** | yes |  | |  |  |
| ***Turbidity -***  Secchi disk | 1:45 PM | 35 inches  36  36 | | 2:17 PM | 32 inches  31 inches  32 inches |
| ***Chlorophyll*** | 1:50 PM | 0.3 | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (drop count kit) | 2:00 PM | 5 mg/L | | 19°C | 60% |
| pH  litmus paper | 2:00 PM | 7.5 | |  |  |
| Salinity - quantabs | 2:00 PM | 2.4 on strip | | 74 Cl- ppm | 134 ppm total salinity |
| ***Fish Catch***  *20 ft. X4 seine – 1 pull* | ***Number Caught –***  *no fish* | ***Species –*** | | ***CPUE -***  *0 catch* | ***Seine*** |
| ***Tides*** | 1:40 PM | 30 inches | |  |  |
| Rising | 2:30 PM | 20 inches | | 10 inches/50 min | 0.5 cm/min |
| ***Currents*** | 2:00 | 1000 cm/30 sec | | 33.34 cm/sec | North - Flood |
| ***Boats*** | 2:00 PM | Sloop Clearwater | | Across river |  |