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

**EAST RIVER MILE 4.5 PM**

**East River, Hunter’s Point, Long Island City, NY**

**Alex Servello, Academy for Careers in TV and Film, 12th APES**

**29 students, 3 adults**

**40° 44’38” N and 73°57’36” W**

**Location:** East River, Gantry Plaza State Park, Long Island City, Queens

**Surrounding Land Use:** Pier**,** Urban/Residential; Industrial/Commercial

**Sampling Site:** Shoreline is rocky with some plants (mainily light vegetation) and has piers and piping entering river. Concrete bulkhead. Under water electrical cables

**Shoreline:** Sandy & Rocky

**Bottom:** Rocky, muddy

**Plants in water:** 50% seaweed and 50% moss (small amount overall

**Water:** Calm to choppy

**Observation:** bubbles/foam in the water

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 2:00 PM  2:01 PM  2:30 PM  2:38 PM  2:55PM  2:58 PM | | 19°C  18  21.1  21,19,19  21.1  20 | 66°F  64  70  68,66,66  70  68 |  |
| Wind Speed | 2:00 PM  2:02 PM  2:50 PM | | Beaufort 3  Beaufort 3  Beaufort 3  Beaufort | 16 pmh | South  South  South |
| Cloud Cover | 2:00 PM X2  2:10 PM  2:50 PM  2:56 PM | | <25 %  26-50 %  <25 %  <25 % |  |  |
| Weather today | No rain – sunny afternoon | | | | |
| Weather last 3 days | No rain 40s on Monday and 60s on Tuesday, big fluctuation | | | | |
| ***Water Temperature –*** *water from shoreline, not pier* | 2:15 PM  2:20 PM  2:30 PM  2:43 PM | 16°CX3  15°C X 3  15°C X3  16, 17/16.5 °C | | 61°F X3  60°F X3  60°F X3  62°F X3 |  |
| ***Turbidity -*** long  Sight Tube | 2:00 PM  2:17 PM  2:26 PM  2:40 PM  2:44 PM | 71,67,71  Error in data  82, 84, 80.3  >120 cm  110/110/110 | | 72 cm  Mildly turbid  82.1 cm  >120 cm avg  110 cm avg |  |
| ***Chemical*** |  |  | |  |  |
| DO  (CHEMetrics ampules) | 2:00 PM  2:15 PM  2:20 PM  2:30 PM  2:48 PM | 14°C  15°C  15°C  15°C  16.75°C | | 6,6  10 pm  8, 5, 5 ppm  5,6,6 ppm  4,5,3 | 6 ppm/75%  100% satur.  6ppm avg/60%  5.75 ppm/58%  4 ppm /45% |
| pH (test strips) | 2:09 PM  2:20 PM  2:00 PM  2:30 PM  2:40 PM | 6, 5  5,7,7  6,6,6,6  7,7,7,7  5,6,6, | | Avg – 5.5  6.3  6  7  5.67 |  |
| Salinity  (plastic Hydrometer) | 2:00 PM  2;08 PM  2:20 PM  2:30 PM  2:40PM  2:41 PM | 25.9 ppt  20 ppt  22.0 ppt  23.3 ppt  26 ppt (X4)  22 ppt | |  |  |
| ***Tides –*** | NR |  | |  |  |
| ***Currents*** | **Time** | **Cm/30 sec** | | **Cm/sec** | **Flood/Ebb/Still** |
|  | 2:00 PM  2:03 PM  2:06 PM  2:08 PM  2:22 PM  2:24 PM  2:30 PM  2:30 PM  2:32 PM  2:53 PM  2:55 PM | 1050  876  762  1016  585  584  1095  504  500  1070  906 | | 35  29.2  25.4  33.9  19.5  19.46  36.5  16.8  16.67  35.7  30.2 | Flood  Flood  Flood  Flood  Flood  Flood  Flood  Flood  Flood  Flood  Flood |
| ***Commercial Shipping\****  Ferry runs every 5 mins | 1:53 PM  1:55 PM  1:56 PM  1:55 PM  2:07 PM  2:09 PM  2:15 PM  2:20 PM  2:23 PM  2:32 PM  2:52 PM | Boat  Boat  LI Fery  Boat  Police NYPD  Police NYPD  Ferry  Ferry  Ferry  Tug boat  Large barge | | White  Yellow  White  White  White & Gray  White & Gray  White  White/Blue  NR  Black/White  Black | South light  North loaded  South loaded  North loaded  South loaded  North loaded  South light  North loaded  South loaded  South light  South loaded |
| ***Recreational Boating*** | 2:11 PM  2:14 PM  2:25 PM  2:34 PM  2:45 PM | Speedboat  Speedboat  Speedboat  Sm. Yacht  Medium Boat | | White  White  Black/White  White  White | South  South  South  South  North |
| ***Observations*** | Seagulls, pigeons Plenty of birds but almost no butterflies, dragonflies, or flying insects including bees. No animals. | | | | |