**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 PM2:01 PM2:30 PM 2:38 PM 2:55PM2:58 PM | 19°C1821.121,19,1921.120 | 66°F647068,66,667068 |  |
| Wind Speed | 2:00 PM2:02 PM2:50 PM  | Beaufort 3Beaufort 3Beaufort 3Beaufort  | 16 pmh | SouthSouthSouth |
| Cloud Cover | 2:00 PM X22:10 PM2:50 PM2:56 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 PM2:20 PM2:30 PM2:43 PM | 16°CX315°C X 315°C X316, 17/16.5 °C | 61°F X360°F X360°F X362°F X3 |  |
| ***Turbidity -*** longSight Tube | 2:00 PM2:17 PM2:26 PM 2:40 PM 2:44 PM  | 71,67,71Error in data82, 84, 80.3 >120 cm110/110/110 | 72 cmMildly turbid82.1 cm>120 cm avg110 cm avg |  |
| ***Chemical*** |  |  |  |  |
| DO (CHEMetrics ampules) | 2:00 PM2:15 PM2:20 PM2:30 PM 2:48 PM | 14°C15°C15°C15°C16.75°C  | 6,610 pm8, 5, 5 ppm5,6,6 ppm4,5,3 | 6 ppm/75%100% satur. 6ppm avg/60%5.75 ppm/58%4 ppm /45% |
| pH (test strips) | 2:09 PM2:20 PM 2:00 PM2:30 PM 2:40 PM | 6, 55,7,76,6,6,67,7,7,75,6,6, | Avg – 5.56.36 75.67 |  |
| Salinity(plastic Hydrometer) | 2:00 PM2;08 PM2:20 PM2:30 PM2:40PM 2:41 PM  | 25.9 ppt20 ppt22.0 ppt23.3 ppt26 ppt (X4)22 ppt |  |  |
| ***Tides –***  | NR  |  |  |  |
| ***Currents*** | **Time**  | **Cm/30 sec** | **Cm/sec** | **Flood/Ebb/Still** |
|  | 2:00 PM2:03 PM2:06 PM2:08 PM 2:22 PM 2:24 PM2:30 PM 2:30 PM 2:32 PM 2:53 PM2:55 PM | 10508767621016585 58410955045001070906 | 3529.225.433.919.519.4636.516.816.6735.730.2 | FloodFloodFloodFloodFloodFloodFloodFloodFloodFloodFlood |
| ***Commercial Shipping\****  Ferry runs every 5 mins | 1:53 PM1:55 PM1:56 PM1:55 PM2:07 PM2:09 PM2:15 PM2:20 PM 2:23 PM2:32 PM 2:52 PM | BoatBoatLI FeryBoatPolice NYPDPolice NYPDFerryFerryFerryTug boatLarge barge | WhiteYellowWhiteWhiteWhite & GrayWhite & GrayWhiteWhite/BlueNRBlack/WhiteBlack | South lightNorth loadedSouth loadedNorth loadedSouth loadedNorth loadedSouth lightNorth loadedSouth loadedSouth lightSouth loaded |
| ***Recreational Boating*** | 2:11 PM2:14 PM2:25 PM2:34 PM2:45 PM | SpeedboatSpeedboatSpeedboatSm. YachtMedium Boat | WhiteWhiteBlack/WhiteWhiteWhite | South SouthSouthSouthNorth |
| ***Observations***  | Seagulls, pigeons Plenty of birds but almost no butterflies, dragonflies, or flying insects including bees. No animals.  |