**Snapshot Day 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 25E**

**Matthiessen Park, Irvington**

**Joanna Morabito- Irvington High School Marine Science Class**

**16 students, 11/12th graders**

**\*Philip Levine- Irvington Middle School**

**170 students, 6th Grade**

**Latitude 41** ͦ **2’ 30” N Longitude 73** ͦ **52’ 32” W**

**\*Middle School Data Recorded and posted separately**

**Area:** 40% grass, 10% beach, 5 % forested, 45% river

**Surrounding Land Use:** train, boats, buildings, cars, park

**Sampling Site**: Matthiessen Park

**Plants:**

**Water Depth**: varied; depth increased as the day progressed

**River Bottom**: Rocky close to the beach and muddy farther away

**Weather Conditions:** Cloudy, period of light drizzle between 10 am and 11 am; 54 degrees F

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Times*** | ***Reading 1*** | ***Reading 2*** | ***Reading 3*** |
| ***Physical***  |   | 9:25 am | 10:30 am |  |
| Air Temperature |  | 54 F (12.2 C) | 55 F (12.7 C) |  |
| Wind Speed |  | 3 (Beaufort Wind Scale) | 3 (Beaufort Wind Scale) |
| Cloud Cover |  | 100% | 100% |  |
| Weather today |  |
| Weather recently | Rainy and Windy on Monday Night (.39 inch) |
| ***Water Surface*** |  |  |  |  |
| ***TIMES*** |  | 9:15 | 9:30 | 9:50 |
| ***Water Temperature –***  |  | 61 F (16.1 C) | 54 F (12.2 C)(may be an incorrect reading) | 62 F (16.6 C) |
| ***Turbidity –water chemistry test kit*** |  | 18 cm | 27 cm | 36.5 cm |
| ***Chlorophyll*** |  |  |  |  |
| ***Chemical*** |  |  |  |  |
| ***DO*** (drop kits) |  |  4 ppm40% saturation | 4 ppm31% saturation(temp. reading may have been incorrect) | 4 ppm40% saturation |
| pH |  | 7 | 7 | 7 |
| Salinity - meter |  | 11 | 11 | 12 |
| Alkalinity |  |  |  |  |
| ***Nitrates*** | 9:15 am | .4 PPM (CHEMets) |  |  |
| ***Phosphate*** | 9:15 am | .1 PPM(CHEMets) |  |  |
| ***Fish Catch-*** ***\*\*\*SEE MIDDLE SCHOOL DATA*** | ***Number Caught***  | ***Species*** | ***Average Length*** | ***Seine***  |
| **Lots of seaweed** |  |  |  |  |
|  |  |  |  |  |
| ***Tides******R= right tide stick******L = Left tide stick*** | TIME (am) | Water height  | Rise/FallRise | ***\*\*\*SEE MIDDLE SCHOOL DATA*** |
| ***Currents*** | **Time**9:25 am10:20 am10:50 am11:00 am | **Cm/60 sec** | **Cm/sec**Still currentStill Current1.39 cm/sec 2.38 cm/sec | **Direction**Ebbebb |
| ***Core******\*\*\* SEE MIDDLE SCHOOL DATA*** | **TIME** | **Rare** | **Common** | **Abundant**  |
| ***Traffic*** | A barge travelled down the river near the Tappan Zee at around 10:00 am  |  |  |  |
| ***Other Items*** |  |