**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 ppm  40% saturation | | 4 ppm  31% saturation  (temp. reading may have been incorrect) | 4 ppm  40% 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/Fall  Rise | ***\*\*\*SEE MIDDLE SCHOOL DATA*** |
| ***Currents*** | **Time**  9:25 am  10:20 am  10:50 am  11:00 am | | **Cm/60 sec** | | **Cm/sec**  Still current  Still Current  1.39 cm/sec  2.38 cm/sec | **Direction**  Ebb  ebb |
| ***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*** |  | | | | | |