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

**RIVER MILE 138 – Henry Hudson Park**

**Mary Cosgrove, 3 faculty & 8 students, Mt. St. Rose College**

**Susan Schiavoni, Delaware Community School – 25, 3rd grade elementary students, 2 teachers,**

**Coordinates: 42.64 N, 73.74 W**

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**Location:** Waterfront of Henry Hudson Park

**Area:** Park/Boat launch,

**Surrounding Land Use**: 100% parkland with 75% vegetated coverage – grassy, parking lot, used for picnics, boating, fishing

**Sampling Site:** Banks altered, riprap, bulkheaded -rocky

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| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** | ***Time*** | | ***Temp*** | ***Wind Speed*** | ***Weather today*** |
| Air Temperature | 10:00 AM | | 60⁰ F  20⁰ C | 1-3 Beaufort  1.7 m/sec Anemometer | Chilly, cold, cloudy, windy |
|  | 10:15AM | | 55⁰ F  10⁰ C | 1-3 Beaufort  1 m/sec Anemometer | Cold, cloudy, little rain, windy |
|  | 10:30 AM | | 60⁰ F  17⁰ C | 1-3 Beaufort  2 m/sec Anemometer | Rain/Cold/Windy |
|  | 10:45 AM | | 50⁰ F  15 ⁰ C | 1-3 Beaufort  0.8 m/sec Anemometer | Cold, cloudy , windy |
|  | 11:00 AM | | 61⁰ F  20⁰ C | 1-3 Beaufort  1.7 m/sec Anemometer | Cloudy, cold, windy |
| Weather last 3 days | Rainy, cool | | |  |  |
| ***Water Temperature*** | 10:11 AM  10:23 AM  10:36AM  10:48 AM  10:57 AM | 10⁰ C  10  10  10  12 | | 50⁰ F  50  50  50  52 |  |
| ***Turbidity*** Large site tube | 10:30 AM | 11 cm | |  |  |
|  | 10:42 AM | 9 cm | |  |  |
|  | 10:57 AM | 9 cm | |  |  |
|  | 11:14 AM | 10 cm | |  |  |
|  | 11:25 AM | 12 cm | |  |  |
|  | 11:38 AM | 11 cm | |  |  |
| ***Chlorophyll*** | 10:17 AM | 0.3, 0.3, 0.7 | | **Averages** | 0.4 |
|  | 10:30 AM | 0.1, 0.2, 0.2 | |  | 0.17 |
|  | 10:40 AM | 0.1, 0.1, 0.1 | |  | 0.1 |
|  | 10:50 AM | 0.3, 0.3, 0.3 | |  | 0.3 |
|  | 11:02 AM | 0.3, 0.3 | |  | 0.3 |
| **DO -Drop count** | 10:16 AM  10:28 AM  10:40 AM  10:52 AM  11:05 AM | 10C  10C  10C  14C  10C | | 10 ppm  7 ppm  9 ppm  9 ppm  5 ppm | 85% saturation  60  80  80  45 |
| pH | 10:11 AM  10:23 AM  10:48 AM  10:57 AM | 7.8  7.3  7,4  7.8 | |  |  |
| Salinity – | 10:11 AM  10:23 AM  10:36 AM  10:48 AM  10:57 AM | 0.12 ppt  0.135  0.15  0.15  0.15 | | 120ppm  135 ppm  150 ppm  150 ppm  150 ppm |  |
| Tides - Time start | Time read | Height start | | Height end | Total Change |
| 10:17 AM  10:25 AM  10:35 AM  10:49 AM | 10:20 AM  10:28 AM  10:38 AM  10:51 AM | 44 cm  40 cm  40 cm  37 cm | | 38 cm - Ebb  42 cm Fld\*  35 cm Ebb  30 cm Ebb  \*expect wave | 6 cm loss  (2 cm gain)  5 cm loss  7 cm loss  Total loss 14 cm |
| Currents | 10:17 AM  10:25 AM  10:35 AM  10:49 AM |  | | North  South  North  South |  |