**Day in the Life of the Hudson River 10/23/14 Data**

**(Salt Front RM 61.1)**

**RIVER MILE 138 – Henry Hudson Park**

**Mary Cosgrove, 3 faculty & 9 students, Mt. St. Rose College**

**Susan Schiavoni, Delaware Community School – 29, 3rd grade elementary students, 2 teachers,**

**Coordinates: 42.64 N, 73.74 W**

**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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** | ***Time*** | | ***Temp*** | ***Wind Speed*** | ***Weather today*** |
| Air Temperature | 10:30 AM | | 50⁰ F  10⁰ C | .5 m/s - | Rain/Cold |
|  | 10:42 AM | | 45⁰ F  7.2⁰ C | .4 m/s | Rain/Cold |
|  | 10:57 AM | | 50⁰ F  10⁰ C | 1.2 m/s | Rain/Cold/Windy |
|  | 11:14 AM | | 49⁰ F  9.4⁰ C | .6 m/s | Rain/Cold |
|  | 11:25 AM | | 51⁰ F  10.6⁰ C | .5 m/s | Rain/Cold |
|  | 11:38 AM | | 52⁰ F  11⁰ C | .4 m/s | Rain/Cold/Fog |
| Cloud Cover | cloudy | |  |  |  |
| Weather last 3 days | Rainy, cool | | |  |  |
| ***Water Temperature*** | 10:30 AM  10:42 AM  10:57 AM  11:14 AM  11:25 AM  11:38 AM | 8.8⁰ C  8.7  8.6  8.6  8.7  9.5 | | 47.8⁰ F  47.6  47.5  47.6  47.6  47.3 |  |
| ***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*** | 10:30 AM | 0 .7, 2, 2, 5 | | **Averages** | 2.25 |
|  | 10:42 AM | 0.7, 0.5, 0.4, 0.5 | |  | 0.5 |
|  | 10:57 AM | 0.5, 1, 1, 1, | |  | .75 |
|  | 11:14 AM | 1.5, 0.7, 0.3, 3 | |  | 1.25 |
|  | 11:25 AM | 0.2, 1.5, 4.5 | |  | 2.1 |
|  | 11:38 AM | 1.1, 5, 3.5, 1 | |  | 5.1 |
| **DO -Drop count** | **Not read** |  | |  |  |
| pH | 10:30 AM  10:42 AM  10:57 AM  11:14 AM  11:25 AM  11:38 AM | 4  4.9  4.8  5  5  5 | |  | \*rain event effect |
| Salinity –meter - Traceable salinity | Time | ppt | | ppm |  |
| Low Range | 10:30 AM | .12 | | 120 |  |
|  | 10:42 AM | .11 | | 110 |  |
|  | 10:57 AM | .12 | | 120 |  |
|  | 11:14 AM | .1 | | 100 |  |
|  | 11:25 AM | .12 | | 120 |  |
|  | 11:38 AM | .11 | | 110 |  |
| Tides | Time | Height (cm) | |  |  |
| From start to end | 10:3 AM | 11:38 AM | | South |  |
| Currents |  |  | | South |  |