**Day in the Life of the Hudson River 10/20/16 Data**

**(Salt Front ~ RM 83)**

**RIVER MILE 138 – Henry Hudson Park**

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

**Sara Loya, 25 - 5th Grade Albany Academy for Girls**

**Coordinates: 42.64 N, 73.7W**

**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 | 9:58 AM | | 55⁰ F  10⁰ C | 2 Beaufort  5.5 mph Anemometer | Partly cloudy |
|  | 10:40AM | | 55⁰ F  10⁰ C | 1 Beaufort  2.6 mph Anemometer | cloudy |
|  | 11:10 AM | | 59⁰ F  16⁰ C | 2 Beaufort  3.5 mph Anemometer | cloudy |
|  | 11:32 AM | | 56⁰ F  15 ⁰ C | 2 Beaufort  3.7 mph Anemometer | cloudy |
|  | 5:32 PM | | 61⁰ F  17⁰ C | 0 Beaufort | cloudy |
| Weather last 3 days | Dry and warm | | |  |  |
| ***Water Temperature*** | 9:53 AM  10:37 AM  11:05 AM  11:26 AM  5:33 PM | 12 C  12  12  11  11 | | 53⁰ F  54  53  52  52 |  |
| ***Turbidity*** Large site tube | 10:10 AM | 115 cm | |  |  |
|  | 10:38 AM | 79 cm | |  |  |
|  | 11:05 AM | 80 cm | |  |  |
| **DO -Drop count** | 9:53 AM  10:37 AM  11:05 AM  11:26 AM | 12 C  12  12  11 | | 9 ppm  8 ppm  8 ppm  9 ppm | 82 %  75%  75%  80% |
| pH | 9:53 AM  10:37 AM  11:05 AM  11:26 AM  5:33 PM | 7.0  7.4  7.4  7.4  7.0 | |  |  |
| Salinity – | 9:55 AM  10:35 AM  11:10 AM  11:36 AM | 32 ppm Cl-  30 ppm  36 ppm  36 ppm | |  |  |
| Currents  (listed as tides) | Time | Distance | | River Flow |  |
|  | 10:10 AM  10:44 AM  11:25 AM  11:50 AM | 24 cm/s  14.2 cm/s  11.2 cm/s  2.0 cm/s | | Ebb  Ebb  Ebb  Ebb |  |
| ***Core* - Time** | **Smell** | **Texture** | | **Color** | **Composition** |
| 10:38 AM | Mud  Soil  Metallic | Crumbly  Sticky  Creamy  Rough | | Rust  Brown  Tan  White | Rocks  Fur  Roots  Sand  Soil |
| 11:05 AM | Rusty  Soil  Mud | Smooth  Cold  Crumbly  Sticky  Rough | | Red-Orange  Rust  Dark Brown  White | Fur  Rocks  Roots  Clay  Dirt/Soil |
| 11:30 AM | Mud  Sand  Rusty  Metallic | Dry  Soft  Smooth  Moist  Squishy  Crumbly | | Brown  Maroon  Rust | Sand  Rocks  Clay  Mud |
| 5:58 PM | Muddy | Sandy  Rough | | Brown | Mud  Rocks |