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

**(Saltfront ~RM 83)**

**RIVER MILE 17**

**Mt. St. Vincent College Campus, NYC**

**Patricia Grove & Tara Anderson – Mt. St. Vincent College – 2 adults, 5 students**

**Latitude 40°54.46 N Longitude 73°54.41 W**

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 **Location:** Waterfront of Mt. St. Vincent’s College

**Area:** Forested, grassy

**Surrounding Land Use:** Forested 25%, Academic Environment 75%

**Sampling Site:** Shoreline is 100% rocky –bulkhead, drainage pipes in area, beach area, covered in vegetation, 50 cm storm pipe near site

**Plants in water of sampling area:** no plants in the water

**Plants in the area:** No plants in water area

**Water depth**: NR

**River Bottom** – sandy/rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 1:33 PM1:07 PM | 68° F64.4 | 20°C18°C |  |
| Wind Speed | 1:30 PM | Beaufort #2.7  | 1.5-2.0 kts – gusting to 4.2 kts | S |
| Cloud Cover | 1:30 PM  | Partly cloudy |  |  |
| Weather today | No rain |
| Weather recently | Record high temperatures!  |
| ***Water Temperature –*** | 1:08 PM  | 20°C18 | 68°F64.4 |   |
| **Water surface:**  | calm |  |  |  |
| ***Turbidity****Long site tube* | 12:40 PM | 21 cm |  |  |
| ***Chemical*** |  |  |  |  |
| DO LaMotte kit 7414 | 1:27 PM | 4.0 mg/L | Temp 18° C | 40% saturated  |
| pH – LaMotte kit 5858 | 1:39 PM | 10 |  |  |
| Salinity - refractometer | 1:06 PM | 18 ppt17 18 |  | 17.7 ppt |
| Nitrates | 1:19 PM | 2.0 ppm |  |  |
| Phosphates | 1:34 PM | <1 ppm |  |  |
| Alkalinity | 1:21 PM | 60 ppm58 ppm |  | 59 ppm avg. |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***Length***  |  |
| ***Tides*** | 1:33 PM  |  | flood |
| ***Currents*** | 1:59 PM | 3.03 cm/sec | 0.059 kts | N Flood |
| ***Note*** | St. Vincent Point juts out into the river N of our sampling site |
| ***Traffic – commercial***  | 1:10 PM | Tugboat & Barge  | South |  |
|  | 12:45 PM | Tug & Barge | North |  |
| ***Recreational*** | 1:15 PM |  | South |  |
|  | 1:42 PM | Speedboat | South |  |
|  | 1:49 PM | Majestic Princess | South |  |
| ***Other observations*** | Geese  | Turkey Vulture  | Blue Jay |  |