**Snapshot Day 10/20/16**

**(Saltfront ~RM 83)**

**RIVER MILE 14**

**Inwood Hill Park Nature Center, NYC**

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**Carolina Castro – Riverdale Kingsbridge Academy - 10th grade –**

**30 students, 4 adults**

**Latitude 40°50’N/ Longitude 73°55 W**

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**Location:** In the cove of Inwood Hill Park

**Area:** Forested

**Surrounding Land Use:** Forested 60%; urban residential 40%; park/recreation; Pier, bulk-headed, rip rap shoreline. Forested and used by people for picnics, jogging, sitting on park benches.

**Sampling Site:** large riprap on shoreline, drainage pipes in area, vegetation

**Plants in area:**

**Water depth**: 3-4 feet

**River Bottom** – muddy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** |  | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:30 AM | 63 F17.2 C |  |  |
| Wind | 10:30 AM  | Beaufort 1.5 |  |  |
| Cloud Cover | 26-50% | Partly cloudy |  |  |
| Weather today | No rain |
| Weather recently |  Warm and dry |
| **Water surface:**  | calm |  |  |  |
| ***H2O Temperature*** | 11:04 AM  | 20 C2020 | Average 20 C |  |
|  | 12:02 PM | 20 C2020 | Average 20 C |  |
|  | 12:15 PM | 20 C2020 | Average 20 C |  |
| ***Turbidity****(long site tube)* | 11:00 AM  | 15 cm16 cm13 cm | Average 14.3 cm |  |
| ***Chemical*** |  |  |  |  |
| DO Drop Count test kit  | 12:00 PM | 2 ppm – cited possible error | 20 C | 22% saturated  |
| pH | 11:35 AM | 777 | 7 Average |  |
| Salinity – refractometer | NR |  |  |  |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***CPUE*** | ***Seine*** |
| Seine 12:00 PM | 2 | Atlantic Silverside |  | **DIV 1** **TOTAL 2** |
|  |  |  |  |  |
| **Tides**  | **Time** | **Height** | **Rise/Fall/Unch** | **Rate of Change** |
|  | 10:39 AM | 92.4 cm | Rising | Start |
|  | 11:00 AM | 102.3 cm | Rising | 0.495 |
|  | 11:20 AM | 111 cm | Rising | 0.435 |
|  | 11:40 AM | 119.4 cm | Rising | 0.42 |
|  | 12:00 PM | 129 cm | Rising | 0.48 |
| **Currents** | **Cm/30 sec** | **Cm/sec** | **knts** | **N/S Ebb/Flood** |
| 10:50 AM | 250/30 | 8.3 | 0.161 | N still |
| 11:20 AM | 111/30 | 3.7 | 0.072 | N still |
| 11:49 PM | 500/30 | 16.67 | 0.324 | N flood |
| Measured on the left channel not main body |  |  |  |  |
| ***Shipping*** | Circleline | Northbound | Loaded with people | No time listed |