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

**RIVER MILE 23**

**Dobbs Ferry, Waterfront NY**

**Stephen Fleming, EF Academy and 200 Students 11th & 12th,**

 **7 adults total**

**(41.009253 -73.880438)**

**Location:** Dobbs Ferry Waterfront Park, Westchester NY

**Area:** Brand new waterfront park

**Surrounding Land Use:** Parkland

**Sampling Site**: 10%beach at low tide,70% rip rap,

**Shoreline:** shore with bulkhead, area covered with vegetation

**Plants in area:** Trees, bushes and grasses

**Water**: Calm

**River Bottom**: sandy/rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical -*  Air Temperature** |  **Time** | **°F** | **°C** | **Average** |
|  | NR |  |  |  |
| **Wind Speed:** | **Time** | **Beaufort** | **Anemometer** | **Direction** |
|  | NR |   |  |  |
| **Cloud Cover** | NR |  |  |  |
| **Precipitation** | **Time** | **Rain** | **Describe**  |  |
|  |  None | N |  |  |
| **Weather last 3 days**  | Warm and dry |
| ***Water Temperature*** | **Time** | **ºC** | **ºF** | **Average** |
|  | Avg. 9 AM-3:30 PM | 21.9 C |  71.4 F |  |
| ***Turbidity – long site tube*** | **Reading 1** | **Reading 2** | **Reading 3** | **Average**  |
|  | NR |  |  |  |
| ***Chemical*** | **Time**  | **mg/L** | **Water Temp** | **% Saturation** |
| ***DO (vernier data logger)*** | NR |  |  |  |
| **pH** – color match test kit | NR |  |  |  |
| ***Salinity - refractometer*** | Avg. 9 AM-3:30 PM | 12.9 ppt |  |  |
| ***Fish Catch – 48 hauls*** | ***ID*** | ***Number***  | ***Longest***  | ***Totals*** |
|  | Atlantic Silverside | 43 |  | **DIV 6** |
|  | Fourspine Stickleback | 1 |  | **TOTALS 53** |
|  | Northern pipefish  | 1 |  |  |
|  | White Perch  | 1 |  |  |
|  | Striped Bass | 5 |  |  |
|  | Bluefish  | 2 |  |  |
|  | **DIVERSITY 4** | **Totals 42** |  |  |
| ***Tides -***  | ***Time*** | ***H20 height*** |  | ***\*Rate of change***  |
| NR |  |  |  |
| ***Currents -*** | **Time** | **E/F/S** | **cm/30 sec** | **Cm/sec** | **Kts** |