**Snapshot Day 10/12/17 Data**

**(Salt Front ~RM 65)**

**RIVER MILE 7.3**

**79th Street Boat Basin**

**Maija Neimisto and Krista Norris, Hudson River Sloop Clearwater**

**Pamela Rosenburg, PS 107**

**5th graders 45 students, 5 adults**

**40degrees 47.1918 N – 73degrees 59.1585 W**

**Location:** Off from the79th Street Boat Basin Dock in Manhattan

**Area:** Urban boat dock

**Surrounding Land Use:** Urban/residential 60%,Industrial/commercial 40%,

**Sampling Site:** Hudson in front of the boat basin

**Shoreline:** developed

**Plants in area:** n/a

**Water depth**:

**River Bottom**

**Water** – choppy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** |  | ***Comments*** |
| ***Physical***  |   |  |  |  |
| **Air Temperature** |  |  °F |  °C |  |
| **Wind Speed** | **Beaufort #** | **Knots** | **Mph** | **Direction** |
| Cloud Cover |  |  |  |  |
| Weather today | No rain except this AM at 6:00-6:45 AM |
| Weather recently | No Unusually temperatures/weather  |
| ***Water Surface*** | Choppy  |  |  |
| ***Water Temperature*** |  | °C | ° F |   |
| ***Turbidity -***  |  10:45AM | 20 cm |  |  |
| ***Chemical*** |  |
| DO -drop count | 11:35 AM | 8 mg/ | °C |  |
| pH – color match test | ***Time*** |  ***Reading***  |  | ***Averages*** |
|  | 11:15 Am | 7.5 |  |  |
| ***Salinity – hydrometer*** | 10:30 AM  | 18 ppt |  |  |
| ***Tides - Time*** | ***Cm start ht*** | ***Stop Time*** | ***Cm end***  | ***Tide***  |
|  |  |  |  |  |
| ***Currents/Time*** | **Cm/30 secs** | **Cm/Sec** | **North/South** | **Ebb/Flood/ Still** |
| 9:05 AM  | 1086 | 36.2 cm/sec | South  | Ebb  |
| ***Trawl Net***  | **TIME** | **SPECIES** | **CATCH** | **SIZE/CM** |
| **Fish**  |  | American Eel | 1 | 8 cm |
|  |  | Weak Fish  | 1 | 31 cm |
|  |  | Hog Choker  | 1 | 11.5 cm |
| **Fish** |  | **Diversity 3** | **Totals 3** |  |
| **Macroinvertebrates** |  | Mantis Shrimp | 1 | 8 cm  |
|  |  | Blue Crab | 14 | 12 cm |
|  |  | Shrimp | 55 | ~ 3 cm  |
| **Macro invertebrates** |  | **Diversity 3** | **Totals 70** |  |
| **Shipping Commercial**  | 5  | Northbound | Commercial  |  |
|  | 4  | Southbound | Commercial |  |
| **Recreational**  | 7 | Northbound | Recreational |  |
|  | 4 | Southbound | Recreational |  |