**Snapshot Day 10/20/15 Data**

**Bronx RM8.5**

**Concrete Plant Park, Bronx, NY**

**Kathalene Lamboy, Bronx River Alliance**

**Patrick Callahan, Bronx Center for Science & Math**

**22 students, 10-12th graders, 2 adults**

**40.825506 Lat & -73.884777 Lon**

**Location:** Concrete plant, Bronx River

**Area:** Forested bank, grassy area with concrete bike path

**Surrounding Land Use:** 32% Urban/Residential, 2% forested, 60% Industrial/Commercial, 5% lawn/vegetation

**Sampling Site:** No plants in water, trash around

**River Bottom:** Muddy, Weedy, Rocky

**Plants in area:** Tree of Heaven (invasive)**,** yHickory

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time –***  | ***Reading 1*** | ***Reading 2*** | ***Reading 3*** |
| ***Physical*** |   |  |  |  |
| Air Temperature | 9:49 AM9:51 AM9:53 AM11:30 AM | 16°C16°C15°C15°C |  |  |
| Wind Speed | 9:58 AM1:32 AM | #2#2 | Southerly |  |
| Cloud Cover | 9:58 AM | 51-75% (60%) |  |  |
| Weather today | No rain  |  |
| Weather last 3 days  | Cool |  |
| ***Water Condition*** | Calm  |
| ***Water Temperature*** | 9.58 AM | 12°C |  |  |
| ***Turbidity******secchi*** | 10:46 AM | 85.2 cm86 cm81.4 cm | Average 84.2 cm |  |
|  | 11:20 AM | 99.2 cm65 cm88.1 cm | 84.1 cm |  |
| ***Chemical*** |  |  |  |  |
| DO (drop count kit) | 10:34 AM10:58 11:07 11:16  | 8 ppm7.17.56.1 | 13°C | 75% satur.65%70%55% |
| pH  | 10:19 AM10:21 AM10:23 AM10:26 AM | 5 X 35 X 35 X 35 X 3 |  | 4 |
| Salinity - hydrometer | Reading 1 ppt | Reading 2 ppt | Reading 3 ppt | Average – ppt |
| 10:32 AM | 9.7 | 11 | 7.1 | 9.3 ppt |
| 10:35 AM | 14.9 | 11.1 | 11.1 | 12.4 ppt |
| 10:26AM | 10.9 | 7.5 | 7.5 | 8.6 ppt |
| 10:28 AM | 11.1 | 7.6 | 12.4 | 10.4 ppt |
| NR time | 11.1 | 8.8 | 10.1 | 10.0 ppt |
| ***Fish Catch*** | **Total**  | **Fish** |  | **3-4 seines** |
| ***Div – 4******Total Catch - 23*** | 1 | Mummichogs | Reported as 1 banded and 11 striped – not possible so used key descriptions to work back to this.  |
|  | 11 | Banded Killi |
|  | 10 | Atlantic Silversides |  |  |
|  | 1 | Bay Anchovy |  |  |
| ***Macro - Div – 1******Total Catch - 9*** | 9  | Glass shrimp |  |  |
| ***Tides*** | 9:42 AM | Water height -1.2 cm |  |  |
| ***Currents - Time*** | ***Cm/30 secs*** | ***Cm/sec*** | ***Kts*** | ***E/F/S*** |
| 11:38 AM | 458 | 15.25 | 0.3 | Ebb |
| 11:47 AM | 610 | 20.3 | 0.4 | Ebb |
| 11:51 AM | 610 | 20.3 | 0.4 | Ebb |
| ***Ships*** | 10:25 AM  | White rec. vessel | Southbound | 6 people on it |
| ***Other Observations*** | Seagulls, Atlantic menhaden, cormorant, boatsman insects, dragon fly, mute swan, mussel shells  |