**Day in the Life of the Hudson River 11/3/14 Data**

**(Salt Front not read on 11/3/14)**

**(Note 11/2/14 was 56.9 and 11/4/14 was 65.3)**

**RIVER MILE 28**

**Nyack Memorial Park**

**Tom Perry & Kirsten Kleinman, Nyack High School 2 APES Classes 60 students, 11-12th graders, 6 adults**

**Latitude 40°05.243’N, Longitude 73°54.988 ‘W**

**Location:** Nyack Park where Nyack Brook feeds in

**Area:** Open and grassy, has a parking lot, used for picnics, fishing

**Surrounding Land Use:** 100% park

**Sampling Site:** beach, banks altered, riprap on shoreline, bulkhead

**Plants in area:** no water plants in area

**Water depth**: varied

**River Bottom** – sandy/muddy bottom , water calm

**This year the Nyack students compared a high tide and a low tide sampling as well as their normal transect that runs from Nyack Brook (Station #1) out towards the Hudson River (Station #10)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  |  |  |  |
| Air Temperature |  |  |  |  |
| ***Fish Catch***  ***Seine 12X4*** | ***Number Caught*** | ***Species*** | ***CPUE*** | ***Seine*** |
| **Fish Div = 2**  **Totals = 30** | 28 | *Atlantic Silversides* | *Menidia* menidia |  |
|  | 2 | *Striped Bass* | *Morone Saxatilis* |  |
| **Other Div – 1**  **Totals - Lots** | Lots | *Comb Jellies* |  |  |

Sketch Map of Sampling Site

1

2

3

4

Nyack Brook

5

6

7

8

9

10

Hudson River

**Time: \_\_\_10:00 AM\_\_\_ Tide: \_\_High\_\_\_\_\_ Depth: Surface Sample**

**Turbidity: Secchi**

**Station #4 - 33 cm**

**Old Pier – 20 cm**

**Floating Pier – 26 cm**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Station #** | **Distance (m)** | **Salinity (ppt)** | **Conductivity m/S** | **Temperature (ºC)** | **DO mg/L** | **pH** | **Nitrate** | **Phosphate** |
| 1 | 0 | 0.6 | 408 | 11.2 | 2.6 | 8.2 | 2 | 0 |
| 2 | 10 | 0.6 | 570 | 11.2 | 1.7 | 7.9 |  |  |
| 3 | 20 | 0.9 | 631 | 11.3 | 1.7 | 7.7 |  |  |
| 4 | 30 | 3.2 | 1636 | 11.6 | 1.6 | 7.5 |  |  |
| 5 | 40 | 3 | 1482 | 11.9 | 1.8 | 7.5 |  |  |
| 6 | 50 | 3.5 | 1851 | 12.8 | 1.9 | 7.7 |  |  |
| 7 | 60 | 4.4 | 1990 | 12.7 | 2 | 7.6 |  |  |
| 8 | 70 | 4.6 | 2630 | 12.8 | 2.3 | 7.6 |  |  |
| 9 | 80 | 5 | 2949 | 12.9 | 2.4 | 7.6 |  |  |
| 10 | 90 | 5.6 | 2860 | 12.8 | 3.5 | 7.7 | 2 | 0 |

**Data Table 2: Time \_11:30 AM Tide \_\_\_Low\_ Depth Surface Sample**

**Turbidity: Secchi**

**Station #4 - 30 cm**

**Old Pier – 28 cm**

**Floating Pier – 36 cm**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Station #** | **Distance (m)** | **Salinity (ppt)** | **Conductivity m/S** | **Temp. (ºC)** | **DO mg/L** | **pH** | **Nitrate** | **Phosphate** |
| 1 | 0 | 0.6 | 483 | 11.5 | 4 | 8 | 2 | 2 |
| 2 | 10 | 0.6 | 718 | 11.6 | 3.8 | 7.8 |  |  |
| 3 | 20 | 0.7 | 740 | 11.8 | 3.5 | 7.7 |  |  |
| 4 | 30 | 1 | 899 | 11.9 | 2.8 | 7.6 |  |  |
| 5 | 40 | 1.1 | 912 | 12.4 | 3.7 | 7.5 |  |  |
| 6 | 50 | 1.5 | 1292 | 12.4 | 3.2 | 7.5 |  |  |
| 7 | 60 | 3.3 | 1201 | 12.9 | 3.5 | 7.4 |  |  |
| 8 | 70 | 2.3 | 1570 | 12.9 | 3.4 | 7.5 |  |  |
| 9 | 80 | 2 | 1350 | 13.1 | 4.6 | 7.5 |  |  |
| 10 | 90 | 1.9 | 1365 | 13.2 | 4.4 | 7.5 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |