**Snapshot Day 10/20/16 Data**

**(Saltfront ~ RM 83)**

**RM -2 , Valentino Pier**

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**The Brooklyn New School PS 146 4th graders – 110 students, Adults 30**

**GPS Latitude N : 40°40’42. 10” - W-74°01’06.07**

**Location:** Valentino Pier, Redhook, Brooklyn, NY

**Area:** A large pile of rocks with a small rocky “beach”; area with large pier;

**Surrounding Land Use:** Beach – 5%; Urban/residential 10%; Industrial/Commercial 75%; 10% other- surrounding area landscaped with sea grasses. It is used as a dog walk although signs prohibit that use. Fishing was happening at end of the pier.

**Sampling Site:** beach

**Shoreline:** Pier, riprap

**River Bottom** : sandy and rocky near the little beach area

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | | ***Comments*** |
| ***Physical*** |  | |  |  | |  |
| Air Temperature | 9:00 AM | | 24°C |  | |  |
|  | 10:00 AM | | 25°C |  | |  |
|  | 11:00 AM | | 23°C |  | |  |
|  | 12:00 PM | | 25°C |  | |  |
| Wind Speed |  | | Beaufort | #2 to 3 | | South |
| Cloud Cover | Overcast | |  |  | |  |
| Weather today | No rain | | | | | |
| Weather recently | Warm and dry | | | | | |
| ***Water Temperature*** | 9:00 AM | 18°C  19  20 | | | 19.5 °C |  |
|  | 10:00 AM | 19°C | | |  |  |
|  | 11:00 AM | 20°C | | |  |  |
|  | 12:00 PM | 19.5°C | | |  |  |
| ***Water calm*** |  |  | | |  |  |
| ***Turbidity – short sight tube*** | 9:00 – 1:00 PM | 35 JTU | | |  |  |
| ***Chemical*** |  |  | | |  |  |
| DO  Lamotte DO tablet | 9;00 AM  10:00 AM  11:00 AM  12:00 PM | 19°C  19°C  20°C  19.5 °C | | | 8 ppm  8 ppm  6 ppm  6 ppm | 90%  90%  80%  80% |
| *pH –indicator solution with LaMott testabs* | 9:00 – 1:00 PM | 7 | | |  |  |
| Salinity – hydrometer | 9:00 AM  10:00 AM  11:00 AM 12: 00 PM | 27.5 ppt  27.5 ppt  25 ppt  24.5 ppt | | |  |  |
| ***Fish Catch***  14 ft..seine net, mesh size ¼ inch | ***Number Caught*** | ***Species*** | | | ***Length of largest*** | ***Catch Totals*** |
| 3-4 seines  **fish** | 20 | Atlantic Silversides | | |  | **Diversity 1**  **Total Catch 20** |
| **Macroinvert.** |  | Green Crabs | | |  | **Diversity 1**  **Total Catch 2** |
| ***Tides*** | NR | | | | | |
| ***Currents*** | 9:00AM – 1:00 PM | North | | |  | |
| ***Shipping*** | Water taxi, Staten island ferry barge tugboats | | | | | |
| ***Other Items*** | 1 gull all day! | | | | | |
| ***Almanac Entry – some comments*** | **October 20—Valentino Pier...The Statue of Liberty stood guard as 110 students and their chaperones explored this tiny beach and pier that juts into the New York Harbor. Fishers made way for our students at the end of the pier as they tossed flowers to determine the current direction. One group nearly got hit by a caught, sadly, unidentified, fish. A bucket of green crabs...bait left behind?...made our critter explore all the more interesting. In addition to silversides, an unidentified crab and a barnacle, there were just a few other critters: a lone gull stood guard on a pole. And, as one student noted, pet dogs. Also: Large entrances to tunnels had students speculating that rats lived there. By the end of our time there...the beach had shrunk to just a few feet. The incoming tide surprised us, wetting more than one students' work. Urban nature ...as unpredictable...as any other natural spots on Earth.** | | | | | |