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

(Salt Front ~RM 83)

RIVER MILE 2.9

**Elisa Caref - The River Project**

**Karen Johnson, Teacher 3rd grade Trevor Day School – 52 students and 10 adults**

**Latitude N 40.7282554N Longitude -74.014880 W\***

**Location: Pier 40 Hudson River (also called North River)**

**Area:** Off southern side of Pier 40 about 600-800 feet down the pier from shore. Large urban pier with many sports facilities: athletic fields, kayaking and boathouse, seasonal moorings available, parking, fishing on the pier, benches & picnic tables for the public

**Surrounding Land Use:** 50% Urban/residential; 50% commercial/Industrial **-** parking lot **–** area used for picnics, boating, fishing

**Sampling Site:** Bulkhead, Banks altered; concrete & wood pilings, large pier extends into river/cement bulkhead

**Shoreline:** Rocky

**River Bottom:** Soft sediment habitat

**Plants:** no

**NOTE:** This highly urban site is just west of the busy Westside Highway – it is the largest pier in Hudson River Park (with a 14 acre footprint); Pier 40 is used for recreation; school groups use the athletic fields; there are 3 public boathouses; there are many people by on the river’s edge: jogging, bike riding, walking.

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| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading F*** | ***Reading C*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:46 AM  10:57 AM  11:07 AM  11:15 AM  11:33 AM  11:42 AM | | 71.6F  76  73  75  73  72 | 22C  24  23  24  23  22 | Average 73.4 F  23 C |
| Wind Speed | ***Time*** | | ***Beaufort Chart*** | ***Kestral – from spot somewhat protected by building*** | |
|  | 11:08 AM | | 1 to 4 (gusts) | 1-6 mph SE direction | |
| Cloud Cover | Overcast - increased while there (76-100% cover) | | | | |
| Weather today | no precipitation | | | | |
| Weather recently | Warm and dry | | | | |
| Water | choppy | | | | |
| ***Water Temperature -4 feet of water*** | 10:50 AM  11:03 AM  11:13 AM  11:23 AM  11:33 AM  11:43 AM | 54 F  55 F  54 F  52  52  53 | | 12C  13C  12C  11  11  11.5 | Average  11.75 C  53 F |
| ***Turbidity (long site tube)*** | 10:48 AM  11:02  11:13  11:29  11:38  11:47 | 76 cm  71  73  76  74  77 | |  | Average 74.5 cm |
| ***Chemical*** | **TIME** | **TEMP.** | | **PPM** | **% SAT.** |
| DO – Lamotte tablets | 11:13 AM | 12°C | | 4 ppm | 37% |
| pH – Lamotte sample kit - tablets | 10:45 AM  11:55  11:04  11:17  11:27  11:42 | 6  7  6  5  6  6 | |  | Average 6 |
| Salinity – hydrometer /Instant Ocean | 10:45 AM  10:55  11:04  11:17  11:27  11:45 | 29  25  22  22  23  23 | |  | Average 24 ppt |
| **Tide** | 10:30 AM |  | | Rising |  |
| **Shipping** | Several NYC waterways boats – they all look the same | | | | |