Day in the Life of the Hudson River 10/16/14 Data

(Salt Front RM 65.9)

**RIVER MILE 2**

**Chris Anderson - The River Project**

**Bob Wallace - NYU**

**Karen Johnson, Vanessa Jump, Teachers for the**

**3rd grade Trevor Day School – 55 students and 12 adults**

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

**(\*Floating dock off Pier 40 where water samples were collected)**

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

**Area:** 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% urban/Industrial **-** parking lot **–** area used for picnics, boating, fishing

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

**Shoreline:** Rocky

**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 | 11:08 AM | 54.68F | 12.6C |  |
| Wind Speed | ***Time*** | ***Beaufort Chart***  | ***Kestral***  |  |
|  | 11:08 AM |  | 1.7 (unit?) |  |
| Cloud Cover | Overcast @ noon |
| Weather today | 12:00 PM light rain, humid |
| Weather recently | Rain last night – heavy – fair weather last few days  |
| Water | calm |
| ***Water Temperature -4 feet of water*** | 11:10 AM11:21 AM11:34 AM | 57.2 F57.2 F62.6 F | 14C 14C17C  | Average – 59F 15 °Coff of pier - overcast |
| ***Turbidity (long site tube*** | 11:00 AM | 76.8 cm |  |  |
| ***Chlorophyll*** |  |  |  |  |
| ***Chemical*** | **TIME** | **TEMP.** | **PPM** | **% SAT.** |
| DO:Error in reading |  |  |  |  |
| pH – test strips | 11:06 AM11:17 AM11:29 AM11:45 AM | 776.57.5 |  | Average 7 |
| Salinity – hydrometer -  | 11:06 AM11:17 AM11:29 AM11:45 AM | 24 ppt262428  |  | Average 25.5 ppt |
| **Biologic** | Lots  | Diatoms |  |  |
| ***Boat Traffic –*** ***Commercial*** | 11:06 AM11:10 AM11:25 AM | WatertrailFDNY speedboatNYwaterway | Yellowred Blue/Red | Northbound–lightSouthbound-lightNorthbound-light |
| ***Boat Traffic –*** ***Recreational*** | 11:04 AM11:30 AM | CirclelineCircleline | OrangeOrange | Southound-loadedNorthbound-loaded |
| ***Other Observations*** | The pier is tidy and concrete. There are small pieces of wood that likely washed up in a storm. Birds visible |