Day in the Life of the Hudson River 10/10/13 Data

(Salt Front RM 69.3)

**RIVER MILE 2**

**Chris Anderson - The River Project**

**Bob Wallace - NYU**

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

**3rd grade Trevor Day School – 60 students + 4 teachers and 12 adults**

**Latitude N 40.72825** **N Longitude -74.01382 W\***

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

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**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:** 100% Urban Industrial **-** parking lot **–** area used for picnics, boating, fishing

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

**Plants in area:** None visible

**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 | N/R | |  |  |  |
| Wind Speed | ***Time*** | | ***Beaufort Chart*** |  |  |
|  | 11:15 AM | | #1 | South |  |
| Cloud Cover | Overcast @ 1:30 PM | | | | |
| Weather today | Very light rain in the AM | | | | |
| Weather recently | Rain | | | | |
| Water | slightly choppy | | | | |
| ***Water Temperature -4 feet of water*** | 11:04 AM  11:16 AM  11:30 AM  11:40 AM  11:58 AM  12:13 PM | 50 F  50 F  50 F  50 F  50 F  54 F | | 10C  10C  10C  10C  10C  12C | Average – 50F  10 °C  taken ~400 ft. down the pier off the floating dock |
| ***Turbidity (long site tube*** | 10:59 AM  11:10 AM  11:29 AM  11:35 AM  11:54 AM  12:13 PM | 56 cm  61  60  56  55  60 | |  | Average 58 cm |
| ***Chlorophyll*** |  |  | |  |  |
| ***Chemical*** | **TIME** | **TEMP.** | | **PPM** | **% SAT.** |
| DO:  LaMotte Green Low Cost Water Monitoring Kit | 11:04 AM  11:16 AM  11:30 AM  11:40 AM  11:58 AM  12:13 PM | 10C  10C  10C  10C  10C  12C | | 5.1 ppm  5.5 ppm  5.0 ppm  5.0 ppm  5.0 ppm  5.0 ppm | 45%  49%  44%  44%  44%  44% |
| pH – color match LaMotte kit | 10:56 AM  11:08 AM  11:26 AM  11:40 AM  11:54 AM  12:09 PM | 6.5  6.0  6.5  6.0  6.5  6.5 | | 6.0  6.5  6.0  6.5  6.5  7.0 | Average 6.25  6.25  6.25  6.25  6.5  6.75 |
| Salinity – hydrometer - | 10:56 AM  11:08 AM  11:26 AM  11:40 AM  11:54 AM  12:09 PM | 21 ppt  23  20  22  20  21 | | 22 ppt  22  22  20  20  20 | Average 21.5 ppt  22.5  21  21  20  20.5 |
| ***Vertebrate Catch*** | ***Number Caught*** | ***Species*** | | ***Size*** | ***Minnow traps*** |
| *Unable to do fish* |  |  | |  |  |
| ***Tides*** |  |  | |  |  |
| ***Currents*** |  |  | |  |  |
| ***Boat Traffic –***  *None close enough for names* | ***Pleasure boats*** (sailboats and small motor boats),  ***Transit boats*** (commuter ferry)  ***Working boats*** (tugs and police) | | | | |
| ***Other Observations*** | Seagulls | pigeons | |  |  |