**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE 11.5 – Fort Washington Park**

**Katie White, Marymount School of New York**

**51 students 7th grade, 7 adults**

**Latitude 40°50’46.42444” N - Longitude -73.°56’46.914”W**

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**Location:** Fort Washington Park just South of the George Washington Bridge

**Area:** Site is a sandy beach with rip rap adjacent to a paved jogging trail within a grassy park. Some trees on far side of jogging trail but none next to water. Very little aquatic vegetation.

**Surrounding Land Use**: : 14% forested, 85% grass park land, 1% beach,

**Sampling Site:** Park with a lot of trees, picnic tables, covered with vegetation, lots of riprap shore, collected wood debris. Large outflow pipe directly south of site

**Plants in water:** None

**Water depth**: mainly 0.5 meters or less but seined in 1.5 meter water

**River Bottom** –muddy but rocky closer to shore in some spots

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| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  |  |  |  |
| Air Temperature | 9:58 AM  10:21 AM  10:50 AM  12:18 PM  12:48 PM | 13°C  14  15  20  17 |  |  |
| Wind Speed –  ***Frequent gusts 15-20 throughout day*** | 10:02 AM  10:26 AM  10:55 AM  12:24 PM  12:52 PM | Beaufort 2  Beaufort 2  Beaufort 1  Beaufort3  Beaufort 3 | 5 pmh  5  3  6  8 | SSW  SSW  SSW  SSW  SSW |
| Cloud Cover | 10:06  10:26  10:55  12:24  12:52 | Partly cloudy Mostly  Mostly  Clear  Clear | 25-50 %  51-75  51-75  <25  <25 |  |
| Weather today | No rain |  |  |  |
| Weather last 3 days | Cold (highs mid to low 50s) , Clear, No precip | | | |
| **Water** | Before noon calm, after noon choppy | | | |
| ***Water Temperature*** | 9:49 AM  10:23 AM  10:48 AM  12:18 PM  12:51 PM | 11°C  12°C  14°C  18°C  15°C |  |  |
| ***Turbidity -***  *Long site tube* | 10:00 AM  10:15 AM  11:00 AM  12:15 PM  12:45 PM | 49 cm  51 cm  52 cm  46 cm  55 cm |  | Averages per rotation |
| ***Chemical*** |  |  |  |  |
| DO  *Hach Drop count* | 10:10 AM  10:35 AM  11:03 AM  12:38 PM  1:13 PM | 11°C  12  14  18  15 | 10 ppm  10  10  10  10 | 90% saturation  110%  95%  15%  128% |
| pH  *color match test kit* | 9:58 AM  10:29 AM  10:56 PM  12:27 PM  12:59 PM | 7.0  7.2  7.3  7.2  7.2 |  |  |
| *Salinity* |  | *refractometer* | *hydrometer* |  |
|  | 10:00 AM  10:15 AM  11:00 AM  12:15 PM  12:45 PM | 17 ppt  17  18  19  19 | 17 ppt  17  17  15  16 |  |
| ***Fish Catch – 9 ft.***  ***20 seines*** | ***Time*** | ***Fish Species*** | ***# caught*** | ***Length cm*** |
| ***Seine #1*** | 9:50 AM | Atlantic Silversides | 1 | 8.0 |
| ***#2*** | 9:58 AM | Atlantic Silversides | 17 | 8.5 |
| ***#3*** | 10:06 AM | Atlantic Silversides | 1 | 8.5 |
| ***#4*** | 10:20 | Atlantic Silversides | 12 | 11.5 |
| ***#5*** | 10:30 | None | 0 |  |
| ***#6*** | 10:38 | Atlantic Silversides | 2 | 9.5 |
| ***#7*** | 10:40 | Atlantic Silversides | 7 | 10.5 |
| ***#8*** | 10:45 | Atlantic Silversides | 1 | 8.5 |
| ***#9*** | 10:55 | None | 0 |  |
| ***#10*** | 11:00 | Striped Bass | 2 | 10.5 |
| ***#11*** | 11:05 | None | 0 |  |
| ***#12*** | 12:15 PM | Atlantic Silversides | 1 | 10.0 |
| ***#13*** | 12:20 PM | Atlantic Silversides | 10 | 10.0 |
| ***#14*** | 12:22 | None | 0 |  |
| ***#15*** | 12:25 | Atlantic Silversides | 2 | 8.0 |
| ***#16*** | 12:47 | None | 0 |  |
| ***#17*** | 12:48 | None | 0 |  |
| ***#18*** | 12:49 | Atlantic Silversides | 8 | 8.5 |
| ***#19*** | 12:54 | None | 0 |  |
| ***#20*** | 1:00 PM | None | 0 |  |
| ***TOTAL DIV - 2*** | **TOTAL CATCH 64** |  |  |  |
| ***Macroinvert*** | ***Number*** | ***Macros*** | ***Number*** | ***Additional Info*** |
| ***Seine #1*** | 9:50 AM | Mud Snail | 1 |  |
|  |  | Ctenaphore | 2 |  |
| ***#2*** | 9:58 AM | Blue Crab | 1 | YOY Male |
| ***#2*** |  | Shore Shrimp (Palaemonetes) | 1 |  |
| ***#3*** | 10:06 | Blue Crab | 1 | YOY Male |
| ***#3*** |  | Ctenaphore | 1 |  |
| ***#3*** |  | Mud Snail | 1 |  |
| ***#6*** | 10:30 | Ctenaphore | 4 |  |
| ***#7*** | 10:38 | Ctenaphore | 4 |  |
| ***#8*** | 10:45 | Ctenaphore | 5 |  |
| ***#9*** | 10:55 | Ctenaphore | 5 |  |
| ***#11*** | 11:05 | Blue Crab | 1 | YOY Male |
| ***#11*** |  | Mud Snail | 4 |  |
| ***Macro – Div. 4*** | ***Totals 31*** |  |  |  |
| ***Tides*** | 9:45AM | Rising | 77 cm | --- |
|  | 10:01 AM | Rising | 81 cm | 0.25 cm/min |
|  | 10:20 AM | Rising | 88 cm | 0.37 |
|  | 10:39 AM | Rising | 99 cm | 0.58 |
|  | 10:49 AM | Rising | 102 cm | 0.30 |
|  | 11:07 AM | Rising | 106cm | 0.22 |
| \* meter stick got submerged so put in a new stick at a new location |  |  |  |  |
|  | 12:15 PM | Rising | 19 cm | --- |
|  | 12:31 PM | Rising | 30 cm | 0.69 |
| ***Currents*** | ***CM/60 secs*** | **Cm/Sec** | **North/South** | **Ebb/Flood/Still** |
| ***9:58 AM***  ***10:20 AM***  ***11:00 AM***  ***12:23 PM***  ***12:55 PM*** | Were able to throw the orange into the main channel so this is main channel current! | 5.4 cm/sec  12.4 cm/sec  9.5 cm/sec  15.3 cm/sec  9.5 cm/sec |  | Flood  Flood  Flood  Flood  Flood |
| ***Shipping – Commercial*** | 10:03 AM | Barge | BMLP | S - Loaded |
|  | 12:55 PM | Tug/Barge | Doubleskin 301 | N - Light |
| ***Recreational*** | 9:59 AM |  | Unknown | N – N/A |
|  | 12:32 AM |  | UNKNOWN | S - NA |