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

**(Salt Front ~RM 83)**

**RIVER MILE 92**

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**Kingston Point Park, Kingston, Ulster County**

**Julie Noble, KC Keegan-Twonbly, Forsyth Nature Center (Site Hosts)**

**Kingston High School, 7 students, 2 adults**

**GPS Latitude 41°55.48 N Longitude 73°57.55 W**

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**Location:** Swimming Beach Kingston Point, City of Kingston, forested, beach and parking lot

**Area:**, Used for picnics, boating, fishing, swimming, jogging, kayaking

**Surrounding Land Use**: 5% forested; 85% beach; 10% Industrial/Commercial

**Sampling Site:** Beach area-shoreline is sandy with some bricks, banks are altered, collected wood debris in the area, rip rap to north along brickyard shoreline. Sandy shoreline 75 feet from shoreline to parking lot, 200 feet wide with boat launch, large amount of brick debris from prior industry

**Plants in area:** 2% duckweed, spatterdock, water chestnut, water celery

**Water depth**: 0.4 depth

**River Bottom** : sandy

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| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 12:50 PM | | 65°F  18.3°C |  |  |
| Wind Speed | 12:50 PM | | #1 Beaufort | N |  |
| Cloud Cover | 12:50 PM | | overcast >75% cover | | |
| Weather today | Cloudy | | | | |
| Weather recently | Sunny – 84 F | | | | |
| ***Water Surface*** | Calm | | | | |
| ***Turbidity*** | Water clear up to ~ 1 meter – sand created turbidity the more we walked in it the more turbid it became. | | | | |
| ***Water Temperature*** | Time | Temperature #1 | | Temperature #2 | Average |
| Water Depth 2 ft. | 1:00 PM | 60°F  21 °C | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  *Test tabs* | 1:15 PM | 7 ppm | | 21 C | 81% saturated |
| pH – color match kit | 1:15 PM | 7 | |  |  |
| Salinity - hydrometer | 11:56 AM | 1.006  1.004  1.005 | | Above the salt front - trace |  |
| ***Fish Catch***  *30’seine X 4 ft. with bag – 20 ft haul* | ***Number Caught- 15*** | ***Species - 2*** | | ***Largest Size*** |  |
| *10;45-11:45 AM* | 11 | Pumpkinseed fish | | 5 cm | **DIV 5** |
|  | 3 | Bluegill Sunfish | | 5 cm | **TOTAL 28** |
|  | 8 | Alewife y-o-y (Herring) | | 6.5 cm |  |
|  | 3 | Striped Bass | | 8 cm |  |
|  | 3 | Banded Killifish | | 5 cm |  |
| ***Macro Catch*** | 4 | Blue Crab | | Male | **DIV 3** |
|  | Abundant | Scuds | |  | **Totals 4 +** |
|  | Abundant | Zebra Mussels | |  |  |
| ***Tides*** | 10:00 AM  10:50 AM  11:36 AM  12:06 PM  12:34 PM  1:02 PM | Ebb  Ebb  Rise  Rise  Rise | |  | |
| ***Currents*** | NR |  | |  |  |
| ***Core Sample*** | ***Description*** | ***Rare*** | | ***Common*** | ***Abundant*** |
|  | 15 cm  grey color | Brick | |  | Sand |
| ***Traffic- Commercial*** | 10:40 AM  11:38 AM  12:30 PM | A87 Barge  UBC Seattle- Barge  Barge | | Black  Red  Green | N - loaded  S – light  S - light |
| ***Traffic – Recreational*** | 11:02 AM  11:10 AM | Speedboat  ‘Unplugged’ | | White  White | South  North |
| ***Other Items*** | 10:40 AM Belted Kingfisher (1)  11:15 AM Ring Billed Gulls (35) | | | | |
|  | Beach ~ 1/3 covered with brick parts, 1/8 covered with water chestnut seed pods, few shell pieces | | | | |