**Day in the Life of the Hudson River 10/24/14 Data**

**(Salt Front RM 65.3)**

**RIVER MILE 43**

**Riverfront Green, Peekskill, Westchester**

**Michael Billy, Walter Panas High School - 44 students, 12th grade APES, 6 adults**

**Latitude N 41°17’13” Longitude W 73°55’54"**

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**Location:** Riverfront Green, Peekskill, Westchester County

**Area:** Grassy, park area with beachfront, pier, sandy beachfront, used for picnics, boating and fishing

**Surrounding Land Use:** 100% beach

**Sampling Site:** beach with brick, charcoal, slag and concrete bulkhead

**Water depth**: 2 ft.

**River Bottom** – sandy, rocky.

**Plants –** Cottonwood, willow and sycamore trees

**Site Observations: rocks,** brick, crab shells, glass, water chestnut pods (devil’s heads), twigs, leaves

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 9:52 AM | 51°F10.5°C |  |  |
| Wind Speed | 9:53 AM | 3 Beaufort | 8 kts 10 mph | NE |
| Cloud Cover | overcast |  |  |  |
| Weather today | Cold and overcast  |
| Weather recently | Rain and drizzle  |
| ***Water Surface*** | Choppy |  |  |  |
| ***Water Temperature –***  | 8:45 AM  | 48 °F12°C | 10:32 AM | 59 °F15°C |
| ***Turbidity – as noted*** | 9:00 AM | 1) Secchi2)Long site tube | 61 cm50 cm | Water somewhat turbid |
| ***Chemical*** |  |  |  |  |
| DO (drop kits) | 10:32 AM  | 9 mg/l | 15°C | 88 % saturated |
| pH | 10:18 AM | 7.2 |  |  |
| Salinity -quantabs | High range 5.4 | .236 %NaCl | 1432 ppm Cl- |  2586 ppm Total Salinity |
| ***Fish Catch- Noon***  | ***Number Caught*** | ***Species*** | ***Length*** | ***Diversity/ Totals*** |
| 8:25 AM 60 ft. net X 4ft. | 2 | White Perch | 8.6 cm | **DIV = 3****Totals - 24** |
|  | 21 | Alewives | 8.6 cm |  |
|  | 1 | Striped Bass | 8 cm |  |
| 9:00 AM30 ft. net | 29 | Herring | 9.1 cm | **DIV = 1****Totals - 29** |
| 9:56 AM30 ft. net | 19  | Herring | 8.9 cm | **DIV = 2****Totals - 21** |
|  | 2 | Striped Bass | 8.2 cm |  |
| **GRAND TOTAL**  | **Total DIV** | **4** | **TOTAL Catch**  | **74** |
| ***Tides*** | 8:20 AM | 2 ft. |  |  |
|  | 10:42 AM | 4 ft |  | Rising |
| ***Currents*** | **Time** | **Cm/30 sec** | **Cm/sec** | **Direction** |
|  | 10:01 AM | 82cm/30 sec | 2.73 cm/sec | Flooding |
| ***Sea Level Rise Activity*** | A 36 inch rise in sea level resulted in an ~17 ft. ingress into the park.  |
| ***Other Items*** | Crow and seagull  |