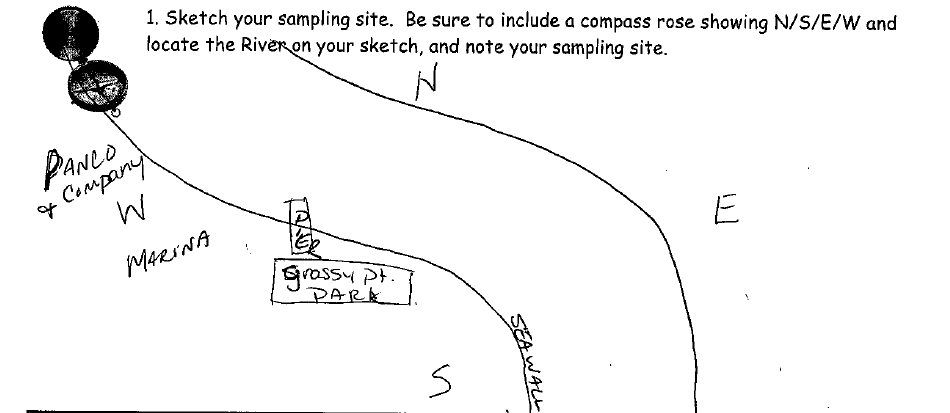
**Day in the Life of the Hudson River 10/16/15 Data**

**RIVER MILE 36**

**Riverfront Park, Stony Point Marina, Stony Point, Rockland**

**Jeanne Maguire, RCC Environmental Science Students through North Rockland HS – 28 students, 5 adults**

**Latitude N 41.224 - Longitude W 73.963**

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***Sampling Map***

**Location:** Stony Point Marina Riverfront Park, City of Stony Point in Rockland County

**Area:** Located along the side of the road at the south end of the marina – Forested in the wider area, Pier, Grassy, Parking Lot

**Surrounding Land Use:** 30% urban/residential, 40% Industrial/commercial, 20% beach and 10% forested

**Sampling Site:** Some beach and rip rap edges.

**Shoreline:** Sandy, muddy, but very rocky

**Plants in area:** No plants in the water but chestnut seed pods found on the shoreline

**River Bottom** – muddy, sandy, rocky

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | | ***Reading 1*** | ***Reading 2*** | | | ***Comments*** | |
| ***Physical*** |  | | |  |  | | |  | |
| Air Temperature | 10:19 AM  10:36 AM  11:35 AM | | | 54 F  54 F  55 F | 12.2 C  12.2 C  12.78 C | | |  | |
| Wind Speed | NR | | |  |  | | |  | |
| Cloud Cover | 10-12:00 PM | | | Partly Cloudy | 26-50% | | |  | |
| Weather today | No rain | | | | | | | | |
| Weather recently | No rain – cool | | | | | | | | |
| ***Water Surface*** | Calm & cloudy | |  | | |  | | |  |
| ***Water***  ***Temperature*** | 10:00 AM | | 0.5 ft. deep in shade – water shaded by plants | | | 16oC | | |  |
| ***Turbidity –***  Transparency tube | 11:30 AM | | 16.2 cm  16.5  15 | | | Average  15.9 cm | | | Water was very turbid – sand & dirt in it |
| ***Chemical*** |  | |  | | |  | | |  |
| DO | 11:40 AM | | 17 oC  16 | | | 12 ppm  9 ppm | | | 100%  90%  Saturation |
| pH  Indicator solution | 9:55 AM  10:13 AM  10:15 AM | | 7.2  7.4  7.3 | | |  | | |  |
| Salinity – High Range  quantabs | 12:10 PM | | 6.6 units | | | 2161 mg/L chloride | | | 3904 Total Salinity |
| Conductivity |  | | 6451 uS | | | 6430 uS | | |  |
| ***Fish Catch- 9:40-12:15 AM*** | ***Number Caught*** | | ***Species*** | | | ***Size of largest*** | | | ***Seine*** |
| 24 ft net X 4ft– | 4 | | Striped Bass | | | 13 cm | | |  |
|  | 88 | | Atlantic Silversides | | | 8 cm | | |  |
|  | 1 | | Yellow Perch | | | 10 cm | | |  |
|  | 8 | | Smallmouth bass | | | 10 cm | | |  |
|  | 1 | | Hogchoker | | | 10 cm | | |  |
| ***Total Catch*** | **102** | | ***Total Fish Count*** | | | ***5*** ***#Species*** | | |  |
|  |  | | ***Invert Seine*** | | |  | | |  |
|  | 2 | | Blue Crab | | | 2 M | | |  |
| ***Total Catch*** | **2** | | ***Total Invert Count*** | | | ***1 #Species*** | | |  |
| **Coring** | Unable to collect – sediment corer broke | | | | | | | |  |
| ***Tides*** | | 10:14 | 4 cm | |  | |  | | |
| 10:30 | 15 cm | |  | |  | | |
| 10:58 | 25 cm | |  | |  | | |
| ***Current \**** | | **Time** | **Cm/sec** | | **Ebb/Flood** | |  | | |
|  | |  |  | |  | |  | | |
| ***Traffic - commercial*** | | **Name** | **Type** | | **North/South** | | **Loaded/Light** | | |
| 11:14 AM  11:30 AM  12:06 PM | | Teal/white  blue/white  white/grey | Tug/barge  Tugboat  barge/ | | Northbound  Northbound  Southbound | | Loaded  Loaded  Loaded | | |
| ***Traffic Recreational*** | | **Type** | **Nam/color** | | **North/South** | | **Loaded/Light** | | |
| 11:10 AM  11:30 AM  11:30 AM | | White  White  White | Fishing boat  Speed boat  Speedboat | | South  North  South | | Loaded  Light  Light | | |
| **Observations** | | Water chestnut seeds, shell pieces, fish carcass, sand and different sized rocks and lots of driftwood. | | | | | | | |
| **Animals** | | Wasps, crabs, seagulls and ducks | | | | | | | |