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

**(Salt Front ~ RM 83)**

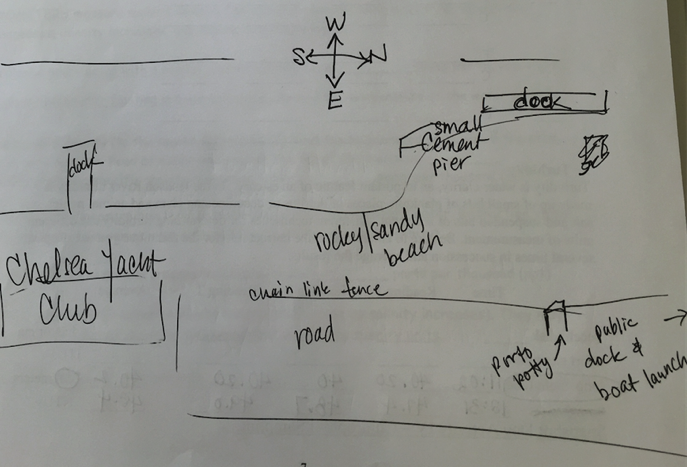
**RIVER MILE 65 – Chelsea Boat Launch, Wappinger Falls, NY**

**Rosellen Hardt, Wappinger Junior HS**

**29 students 7th grade, 7 adults, 4 adults**

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**Location:** Chelsea Boat Launch, Wappinger Falls, Dutchess County, NY

**Area:** rocky sandy beach for core samples and seining, dock for chemistry

**Surrounding Land Use**: 25% urban/residential, beach 10%, 40% Industrial/Commercial, 25% beach,

**Sampling Site:** beach area with pier, riprap shoreline, concrete docking in area

**Plants:** 1/8 area - pickerelweed, reed grass, water celery, water milfoil

**Water depth**: 20 ft.

**River Bottom** –muddy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  |  |  |  |
| Air Temperature | 10:36 AM  11:03 AM  11:22 AM | 20.2 °C  19.6  20.7 | 68.3°F  67  69 |  |
| ***Wind Speed –*** | ***Time*** | ***Clouds*** | ***Beaufort #*** | ***Wind m/s*** |
|  | 11:03 AM | Overcast  76-100% | 2 - SW | 5 kts average |
| 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 | Consistent weather throughout day | | |
| Weather last 3 days | Weather for past 3 days: Warm (low 80s) and dry (no rain) | | | |
| **Water** | Choppy | | | |
| ***Water Temperature*** | 11:30 AM | 18°C  17.5°C | 64.4°F  63.5 | Avg. 17.75 °C  64°F |
| ***Turbidity -***  *Long site tube* | 11:02 AM  \_\_\_\_\_\_\_\_\_  12:31 PM | 40.2 cm  40  40.2 cm  \_\_\_\_\_\_\_\_\_\_  47.4 cm  48.7  49.0 |  | Avg. 40.2 cm  \_\_\_\_\_\_\_\_\_\_\_\_\_  48.4 cm |
| ***Chemical*** |  |  |  |  |
| DO | NR |  |  |  |
| pH -  *color match* | 10:45 AM  11:15 AM  11:50 AM  12:20 PM | 7.0  7.5  7.5  7.4 |  |  |
| *Salinity* | NR |  |  |  |
| ***Fish Catch 10:30-12:30 PM*** | ***Time*** | ***Fish Species*** | ***# caught*** | ***Length cm*** |
| ***20 ft. net*** |  | Striped Bass | 3 | 8 cm |
|  |  | Tessellated Darter | 2 | 6 |
|  |  | Spottail Shiner | 11 | 5.5 |
|  |  | Golden Shiner | 1 | 6 |
|  |  | Alewife Herring | 2 | 6.5 |
|  |  | Banded Killifish | 3 | 6 |
|  |  | Porgy | 1 | 6 |
|  |  | White Perch | 2 | 7 |
|  |  | Pumpkinseed | 3 | 8 |
|  |  | Northern Kingfish | 4 |  |
| ***TOTAL DIV - 10*** | **TOTAL** | **CATCH 32** |  |  |
| ***Macroinvert*** | ***Number*** | ***Macros*** | ***Number*** | ***Additional Info*** |
|  |  | Blue Crab | 3 | All Male |
| ***Macro – Div. 1*** | ***Totals 3*** |  |  |  |
| ***Tides*** | 10:15AM | Rising |  |  |
|  | 11:00 AM | Rising |  |  |
|  | 11:45 AM | Rising |  |  |
| ***Currents*** | **Cm/30 Sec** | **Cm/sec** | **Knots** | **Ebb/Flood N/S** |
| ***10:19 AM***  ***11:30 AM***  ***12:45 PM*** | 1305  640.5  641 | 43.5  21.4  21.4 | 0.85  0.42  0.42 | Ebb S  Ebb S  Flood N |
| ***Core Sampling*** | ***Description*** | ***Rare*** | ***Common*** | ***Abundant*** |
| 10:15 AM | 12.7 cm |  | Sand | Clay |
|  |  |  | Gravel |  |
|  |  |  | Pebbles |  |
| 10:48 AM | 10.2 cm |  | Gravel | Clay |
|  |  |  |  | Sand |
|  |  |  |  | Pebbles |
| 12:37 PM | 12.7 cm | Wood | Clay |  |
|  |  |  | Mud |  |
|  |  |  | Sand |  |
|  |  |  | Gravel |  |
|  |  |  | Pebbles |  |
|  |  |  |  |  |