**A Day in the Life of the Hudson River 10/16/14 Data**

**(Salt Front RM 65.9)**

**RIVER MILE 60**

**Dennings Point**

**Jim Uhlig, Storm King School, 12th grade – 8 students**

**41.30’10” degrees Latitude 73.50’11” degrees Longitude**

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**Location:** Dennings Point, 200 yards south of Long Dock Rd. Parking Lot, Beacon, Dutchess County

**Area:** Forested,Beach with large piping entering river. Believe area mostly used for sightseeing and fishing. Found a homemade crab trap on the beach!

**Surrounding Land Use:** Nature preserve with few buildings, 50% forested; 50% beach;

**Sampling Site:** Beach, covered with vegetation, rocky & sandy

**Water Depth @ sampling site:** 3 ft.

**Water:** Choppy

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| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 1:45 PM | 60°F20°C |  |  |
| Wind Speed | 1:23 PM | 4 Beaufort |  |  |
| Cloud Cover | Mostly  | 51-75% |  |
| Weather today | Rain off and on, wind |
| Weather recently | Some rain previous 2 days - humid |
| ***Water Temperature-******Depth 0.1 ft.*** | 2:30 PM | 21°C |  |  |
| ***Water calm*** | yes |  |  |  |
| ***Turbidity -***Secchi disk | 1:40 PM | 24 cm25 cm |  | 24.5average |
| ***Chlorophyll*** | 1:29 PM | 2.0 |  |  |
| ***Chemical*** |  |  |  |  |
| DO (drop count kit) | 1:30 PM2:00 PM | 11 mg/L12 mg/L | 21°C21°C | 120%130% |
| pH – color match test kit | 2:12 PM2:23 PM | 5.5\*5.5\* |  | \*believes not working well |
| Salinity - quantabs | 2:00 PM | LR 5.5HR 2.5 | 303 Cl- ppm380 Cl- ppm | 547 ppm TS686 ppm TS |
| ***Fish Catch****20 ft. X4 seine – 1 pull*  | ***Number –***20  | ***Species –***Alewife | ***CPUE -*** ***Diversity – 1*** | ***Seine*** ***Total catch20*** |
| ***Tides*** | 1:29 PM | 32.9 cm |  |  |
| ***Currents*** | 1:23 PM | 300cm/30 sec | 10 cm/sec | 0.19 kts |
|  | 2:20 PM | 500 cm/30 sec | 16.6 cm/sec | 0.32 kts |
| ***Core Sample – no actual core but sediment in area*** | **Common**Gravel | **Abundant**Slag |  |  |
| ***Boats*** | 1:30 PM | Canoe  | yellow  | light |