**A Day in the Life of the Hudson River 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 102**

**Saugerties Light House, Town of Saugerties, Ulster Co.**

**Mary Henry, Woodstock Day School**

**Grades 5th, 12 students and 3 adults**

 **Location:** Saugerties Light house @ northern bank of peninsula

**Area:** Pier of sorts, boating, fishing, swimming beach, picnics, has a building with restrooms

**Surrounding Land Use:** Forested 90%, Beach 10%

**Sampling Site:** beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, shoreline is sandy & muddy

**Water depth**:

**River Bottom** : Sandy

**Plants in area:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 11:00 AM | 55°F12.78°C |  |  |
|  | 11:30 AM | 55°F12.78°C |  |  |
|  | 12:00 PM | 54 °F12.22°C |  |  |
| Wind Speed | 11:30 AM | Beaufort #1 | 1-3 mph | North |
| Cloud Cover | overcast |  |  |  |
| Weather today | Drizzle/light rain occasional |
| Weather recently | Rain, sunny and warmer than usual |
| ***Water Temperature*** | 11:00 AM | 17°C |  | 2 ft. water |
| Taken in direct sun within 100 ft. of lighthouse | 11:30 AM | 15°C |  | 2 ft. water |
| 12:00 PM | 16°C |  | 2 ft. water |
| ***Water Calm or Choppy*** | calm |  |  |  |
| ***Turbidity***secchi | 12:40 PM | 75 cm | Water seemed ‘cloudy’ |  |
| ***Chlorophyll*** | 11:00 AM | 0.7 |  |
| ***Chemical*** |  |  |  |  |
| DO (ampules) | 11:15 AM | 8 mg/L | 17°C | 85% |
|  | 12:30 PM | 8 mg/L | 16°C | 80% |
| pH – color match kit | 11:00 AM12:30 PM | 8.08.0 |  |  |
| Salinity – Quantabs - | N/R |  |  |  |
| ***Fish Catch –30 ft. net*** | ***Number Caught -***  | ***Species – diversity***  | ***Length of largest*** | ***Seining data*** |
| 11:30 AM  | NO CATCH!! |  |  |  |
| ***Tides*** | **Time** | **Height** | **Falling/Rising** |  |
|  | 11:00 AM | 42 cm |  |  |
|  | 11:30 AM | 28 | Falling  |  |
|  | 12:00 PM | 29 | Falling |  |
|  | 12:30 PM | 16 | Falling |  |
|  | 1:00 PM | 12 | Falling |  |
| ***Currents*** | **Time** | **Cm/60 secs** | **Cm/sec** | **N/S and E/F/S** |
|  | N/R |  |  |  |
| ***Core***  | **Description** | **Rare** | **Common** | **Abundant** |
|  | Oil appearance |  | MudSandGravelSlag | ClayPebbles |
| ***Ships*** | 12:30 PM | Barge | Black | Southbound/ Light |
| ***Other*** | cormorants |  |  |  |