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

**RIVER MILE 115**

**(Salt Front ~ RM 83)**

**Cohotate Preserve, Athens, Greene Co.**

**Liz LoGuidice, Cornell Cooperative Extension of Greene County**

**Tony Loughran, Coxsackie Athens High School, Env. Sci. – 26 students, 12th**

**(adults – 2 teachers, 2 instructors)**

**N 42.24410 – W 73.8362**

**Location:** Cohotate preserve – Ice house site –

**Area:** The ice house is a flat, grassy are on the river with several cotton wood trees. It is situated at the bottom of a forested hill. Large waterfront vegetated. The artificial shoreline of the bulkhead dominates the eastern shore. Shoreline is characterized by tidal mudflats. Area is used recreationally for picnicking, hiking and fishing. Ice house is approximately ½ miles walk from the parking area.

**Surrounding Land Use:** Forested 85%, Beach 10%; Urban/residential 5%

**Sampling Site:** Beach area, Shoreline includes tidal mud flats in the southeast, with a rocky shore further south. To the north of the tidal mud flat there is an old bulkhead, with another tidal flat to the north of the bulkhead, rip rap in sections.

The banks have been altered at the bulkhead (entire ice house area is likely dredge spoil), wood and debris are collected in the southern mudflat, there is lots of vegetation and no pipes entering the water. Brick pieces on shoreline

**Water Depth:** NR

**River Bottom:** Muddy, rocky, weedy

**Plants in area:** NR

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:00 AM | | 17°C |  |  |
| Wind Speed | 0 | |  |  | |
| Cloud Cover | 10:00 AM | | Partly cloudy | 12:00 PM | Overcast |
| Weather today | Cloudy and rain by 1:30 PM | | | | |
| Weather recently | Warm and dry | | | | |
| ***Water Temperature*** | 10:00 AM | 17.3°C | |  |  |
| ***Turbidity – long sight tube*** | 10:50AM | 88.6 cm  76.6 cm  82.2 cm | | Average  82.5 cm |  |
| ***Chemical*** |  |  | |  |  |
| DO  Pasco Probe | AM | 7.95 ppm | | 17.3°C | 80% |
| pH – Pasco Probe | AM | 7.33 | |  | |
| Salinity - quantabs | AM | 1.3 units | | 34 Cl ppm | 66 ppm Total Salinity |
| ***Fish Catch***  *40 ft. X 30 ft.* | ***Total #*** | ***Species –*** | | **Size** | ***Totals*** |
| **FISH –**  **2 seines** | 11  10  41  ~175  16  5  1 | Pumpkinseed  Bluegill  Banded Killifish  Spottail Shiner  Tesselated Darters  yoy herring  golden shiner | |  | ***Diversity – 7***  ***Total Catch – 259*** |
| ***Tide*** | AM | Falling/Ebb | |  |  |