**Snapshot Day 10/20/16 Data**

**(Salt Front ~RM 83)**

**RIVER MILE 124.5**

**Nutten Hook, Green County NY**

**Michelle Vedder-Drew, Mud Creek ELC/Columbia County Soil & Water**

**Liz Pagnani , TALC**

**20 students 1st-9th, & 7 adults**

**GPS Latitude 42.358314 N Longitude -73.788151 W**

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**Location:** Nutten Hook, Green County, NY

**Area:** Beach, forested bluff, large marsh behind bluff, DEC public access, used for picnics, water access

**Surrounding Land Use:** 45%Beach, 55% forested. Shoreline is sandy and rocky, riprap, banks altered in some areas with bulkhead, brick and slag on the ground

**Shoreline:** Sandy, Muddy

**River Bottom:** Sandy, Muddy – 3 ft. deep where sampled

**Plants in area:** none

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 1:40 PM | 17.7°C | 64°F |  |
| Wind Speed | 1:30 PM | Beaufort 1 | 2.3 kts |
| Cloud Cover | 1:30  | overcast |  |  |
| Weather today | By 1:50 it started to rain and was raining hard by the end of sampling |
| Weather recently | Warm and dry – warmer than normal |
| ***Water Temperature*** | 2:44 PM | 17°C | 62.6°F |  |
| ***Water calm or choppy*** | Calm |  |  |  |
| ***Turbidity – short site tube*** | 12:50 PM | 40 JTU3050  | Average 40 JTU |  |
| ***Chemical*** |  |  |  |  |
| DO (drop count kit) | NR |  |  |  |
| pH  | NR |  |  |  |
| Salinity - quantabs | 1:32 PM | 0.2 units | 0 ppm  |  |
| Alkalinity  | 1:30  | 40 ppm |  |  |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***length*** | ***Seine***  |
| 40 ft. seine net X 3/8 inch mesh**Fish**  | 25 | Spottail ShinerMummichog | **DIVERSITY 2** | **TOTAL CATCH 7** |
| **Macro-invertebrates** | 2 | Juvenile blue crab | **DIVERSITY 2** | **TOTAL CATCH 2** |
| ***Tides*** | 1:15 PM | falling |  |  |
| ***Currents*** | 1:20 PM | Still  | In a small bay | Away from the main channel |
| ***Core*** | ***Describe*** | ***Rare*** | ***Common***  | ***Abundant*** |
| ***1:03 PM*** | 8 cm  | GravelPebblesFreshwater mussels | Mud | Sand |
| ***Boat Traffic*** | 12:55 Recreational nameless Southbound Light |
| ***Other Items*** | Nutten Hook was cloudy and overcast, the Hudson calm and holding its breath for the inevitable rainstorm to come. As we worked through our packets the storm approached. Slowly it began to rain softly before the sky opened up and it began to rain in earnest. We toughed it out and still had a great time! The highlight for the kids included sloshing around in the river in waders and catching two juvenile blue crabs.  |