**Day in the Life of the Hudson River 10/20/15**

**RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County**

**Jim Herrington, Norrie Point Environmental Center**

**Maribel Pregnall, Arlington High School**

**22 High School 12th graders, 5 adults**

**Shannon Considine, Poughkeepsie High School**

**18 High School students**

**41.8319 N – 73.9425W**

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**Northern Pipefish Netted well up into the freshwater section of the Hudson!**

**
Location:** Sampling done Norrie Cove and the SW corner of Norrie Point Env. Center Patio. East side of Hudson far from the main channel in a protected cove

**Area:** Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove, facing south onto the HR, bordered by RR embankment, parking lot & the environmental center.

**Surrounding Land Use:** 90% Forested; 10% Parking lot, road and building

**Sampling Site:** Front banks altered, Rip Rap. Cove is very muddy with some riprap and west side is rocky

**Shoreline:** beach area, shore with bulkhead, shoreline rip rap,banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove, piping entering river area

**Plants in area:** All water chestnut had died back leaving only detritus; some water milfoil (several big patches 10X10 ft.; Some water celery in rocky river side but none in cove.

**River Bottom** –50% muddy and 50% rocky

**Water Depth –** 2 ft.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |  Time |  |  |  |
| Air Temperature | 10:19 AM11:00 AM12:40 PM | 14°C14°C20°C | 57.2°F57.2°F68°F |  |
| Wind Speed | 10:25AM | Anemometer 4.3 mph | SE |  |
| Cloud Cover | Partly cloudy 26-51% |  |  |  |
| Weather today | No precip |
| Weather recently | Very cold both 10/18 and 10/19 snow flurries and temps. Down to teens |
| Water Surface |  Choppy |
| ***Water Temperature – cloudy***  | 10:19 AM11:00 AM12:00 PM | 14°C1414 | 57.2°F57.2°F57.2°F |  |
| ***Turbidity*** | **TIME** | **Cm**  |  |  |
| ***When 2 barges went by visibility went to 6-8 cm*** | 10:19 AM11:00 AM12:00 PM | 34 cm34 cm34 cm |  |  |
| ***Chemical*** |  |  |  |  |
| **DO - (Hach drop count)** | ALL DAY | 8 mg/L | 14°C | 80% |
| **pH – indicator solution** | ***Time*** | **Reading #1** | **Reading #2** | **Average** |
|  | 10:19 AM11:00 AM12:00 PM | 7.27.27.4 | 7.47.5 | Avg 7.3Avg 7.35Avg 7.4 |
| **Salinity** | **Time** | **Chl-units** | **Chloride** | **Total Salinity** |
| **Quantabs** | 10:19 AM11:00 AM12:00 PM | 1.41.51.5  | 39 ppm46 ppm46 ppm  | 70 ppm83 ppm83 ppm |
| ***Fish Catch – 9 pulls******~50 ft. net*** | **10:20 AM** | **11:19 AM** | **12:30 PM** | **Species Totals** |
| ***Striped Bass*** | **2** | **3** |  | **5** |
| ***Banded Killifish*** | **6** | **1** | **1** | **8** |
| ***White Catfish*** | **2** |  | **4** | **6** |
| ***Brown Bullhead*** | **1** | **4** | **5** | **10** |
| ***Pumpkinseed*** | **3** | **1** |  | **4** |
| ***Bluegill Sunfish*** | **2** | **1** |  | **3** |
| ***Tesselated Darter*** |  | **1** | **3** | **4** |
| ***White Perch*** | **1** | **3** |  | **4** |
| ***Spottail Shiner***  | **15** | **7** | **4** | **26** |
| ***Northern Pipefish***  |  | **1** |  | **1** |
| ***Largemouth Bass*** |  |  | **1** | **1** |
| ***Blue Crab*** |  | **1 Male** |  | **1** |
| ***River Herring & Shad*** | **Caught & returned** | **Caught & returned** | **Caught & returned** | **>25 (use #25)** |
| **Fish Diversity & Totals**  | ***Div – 8******Totals - 33*** | ***Div – 9,******Totals-22******+ 1 crab*** | ***Div – 6******Totals – 18*** | ***Div 13 +crab******Totals - ~98 +1 crab*** |
| **Tides** | ***time*** | ***cm*** | ***Rising/Falling*** | ***Cm difference***  |
|  | 10:00 AM10:50 AM11:00 AM12:10 PM12:40 PM | 20 cm15 cm13 cm6 cm4 cm | Ebbing all during sampling | 05 cm2 cm7 cm2 cm |
| ***Currents*** | ***Times*** | ***Cm/30 sec*** | ***Cm/sec*** | ***Kts – N/S*** |
| Ebbing whole time | 10:15 AM12:18 PM | 106 cm148 cm | 3.5 cm/sec5 cm/sec | 0.16 South0.1 South |
| ***Shipping -Commercial*** | **Type** | **Name** | **North/South** | **Loaded /Light** |
| 11:10 AM | Barge with tug | Black/Red | South | Light |
| 12:19 PM | DEC Electro-shocker Whaler |  | North |  |
| ***Shipping -Recreational*** | **Type** | **Color** | **North/South** | **Note** |
| 9:50 AM  | Sailboat | Red | North |  |
| 11:13 AM | Motorboat | Red/White | South  | ~18 ft |
| 11:19 AM | Pleasure boat | White | South |  |
| 12:20 PM | Small Yacht | White  | South | ~20 ft. |
|  |  |  |  |  |