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

**RIVER MILE 18**

**Vicki Garufi - Sarah Lawrence College Center for the Urban River @ Beczak (3 staff)**

**Kathleen Ruen, Sarah Lawrence College and 7 Graduate Students in the Art of Teaching**

**Cooper Miller, The Ella Baker School 24 sixth students, 4 adults**

**Sarah Curtis, St. Ann’s School, 20 second graders, 3 adults**

**Latitude – N 40.93813129121615 Latitude – W -73.90288889408111**

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**Location:** Habirshaw County Park, Seining beach, SLCC@ Beczak, Yonkers, Westchester County

**Area:** 2 acreriverfront county park covered mostly by a grass lawn leading down to the river where it meets a tidal wetland and sandy beach. Propertyused for fishing, boats, seining, field trips and education programs – Park and some urban – 75% urban residential, 25% waterfront/beach,

**Surrounding Land Use:** Beach – 2 acre park

**Sampling Site shoreline:** sandy beach, tidal marsh area covered with vegetation, banks altered, large riprap on shoreline, collected wood/debris in area,

**Plants in area:** no plants in the shoreline waterfront however in the marsh area there is:

Arrow arum. mud wort, saltwater cordgrass, phragmites, water celery

**Water depth –**

**River Bottom** – muddy, rocky

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 12:23 PM | | 19°C | 67°F |  |
| Wind Speed | Beaufort 3 | | 7-10 kts | 8-12 mph | NE |
| Weather today | Partly cloudy 26-50%, No rain | | | | |
| Weather recently | Cold | | | | |
| Water calm | choppy | | | | |
| ***Water Temperature –*** | 12:23 PM | 18°C  63°F | |  |  |
| ***Turbidity – sight tube –*** | 12:31PM  12:40 PM | 8 cm  10cm | |  |  |
| ***Chemical –*** | **Time** | **Temp** | | **DO** | **Saturated** |
| DO – ampules | 12:30 PM | 18°C | | 8.5mg/L | 85% |
| pH – indicator solution | 12:31 PM | 8 | |  |  |
| Salinity – hydrometer | 12:29 PM – | 10 ppt  8 ppt  11ppt | | 9.6 ppt average |  |
| ***Fish Catch -***  Seine net 30 feet X 4 ft., 1.4 inch mesh- | ***Number Caught –***  ***10:30 AM – 12:30 PM*** | ***Species*** | | ***Size of largest*** | ***Notes*** |
| **FISH** | 1 | American Eel | |  | **5 FISH DIVERSITY** |
|  | 1 | Atlantic Silverside | |  | **12 TOTAL FISH** |
|  | 4 | Banded Killifish | |  |  |
|  | 3 | Striped Bass | |  |  |
|  | 3 | White Perch | |  |  |
| **MACRO INV** | 3 | Comb Jellies | |  | **4 OTHER DIVERSITY** |
|  | 1 | Moon Jelly | |  | **15 TOTAL OTHER** |
|  | 7 | Shrimp | |  |  |
|  | 4 | Blue Crab | |  |  |
| ***Tides*** | 10:30 AM | Rising | |  |  |
| \*dead low 8:41 AM | 11:00 AM | Rising | |  |  |
| 11:30 AM | Rising | |  |  |
| 12:00 PM | Rising | |  |  |
| 12:30 PM | Rising | | 11 cm |  |
|  | 12:45 PM | Rising | | 15 cm |  |
| ***Currents*** | NR |  | |  |  |
| ***Core Sample*** | ***Entire Length*** | ***Grain Size*** | | ***Abiotic*** | ***Biotic*** |
| 3 layers - black, brown, clear | 11 inches  Smells sulfur like | Larger grain | | Rocks, dirt | phytoplankton |
| ***Other*** | Bald eagle flying over the Palisades, flock of hawks circling above beach | | | | |