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

**(Salt Front RM 69.3)**

**RIVER MILE 18**

**Vicki Garufi - Sarah Lawrence College Center for the Urban River @ Beczak**

**Alethea Lynch, Fox Meadow Elementary School**

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**22 students 3rd graders, 4 adults**

**Sarah Lawrence College Art of Teaching graduate student helpers 20**

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

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| --- | --- |
| **Macintosh HD:Users:margie:Documents:Snapshot Day:2013:photos:Bezack-3 copysm.jpg** | **Macintosh HD:Users:margie:Documents:Snapshot Day:2013:photos:Bezcak-2 copySM.jpg** |

**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 - 60% grassy, 20% parking lot, 20% shore

**Surrounding Land Use:** urban/residential, beach uses

**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 water

**Water depth –** 3-4 feet

**River Bottom** – muddy (sticky

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:00 AM – | | 14°C  60°F |  |  |
|  | 11:00 AM – | | 16°C  60°F |  |  |
| Wind Speed | Beaufort #2 | | 4-6 kts | 6-11 km/hr | NW |
| Weather today | Overcast and very little drizzle for one rotation but it passed | | | | |
| Weather recently | Rain Monday, last 2 days warmer than today | | | | |
| Water calm | Small wavelets, leaves rustle | | | | |
| ***Water Temperature –*** | 10:08 AM | 19°C  60°F | |  |  |
|  | 10:36 AM | 20°C  65 °F | |  |  |
|  | 11:05 AM | 20°C  65 °F | |  |  |
|  | 11:35 AM ft. | 21°C  66°F | |  |  |
| ***Turbidity – sight tube –*** | 10:26 AM  10:53 AM  11:19 AM  11:50 AM | 33 cm  27.5 cm  25 cm  31 cm | |  |  |
| ***Chlorophyll*** | 10:30 AM | 0.4 | |  |  |
|  | 11:00 AM | 0.7 | |  |  |
|  | 11:23 AM | 1.0 | |  |  |
| ***Chemical – collected on the bridge by marsh*** | **Time** | **Temp** | | **DO** | **Saturated** |
| DO – test tabs | 11:00 AM | 20°C | | 5 mg/L | 50% |
| pH – litmus paper | 10:30AM | 6  6.5  7 | |  | Average 6.5 |
| Salinity – hydrometer | 10:30 AM – | 12 ppt  12 ppt  14 ppt | |  | Average 13 ppt |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | | ***Size of largest*** | ***Notes*** |
| Seine net 30 feet X 4 ft., 1.4 inch mesh | 40 | Atlantic Silverside | |  |  |
| 10:00 - noon | 1 | Banded Killifish | |  |  |
|  | 2 | Blue Crab | |  |  |
|  | 5 | Moon Jellies | |  |  |
|  | 2 | Comb Jellies | |  |  |
| ***Tides*** | 10:00 AM |  | | rising |  |
|  | 10:30 AM |  | | rising |  |
|  | 11:00 AM |  | | rising |  |
|  | 1130 AM |  | | rising |  |
| ***Currents*** |  |  | |  |  |
|  | 10:00 AM. | North | | flood |  |
|  | 10:30 AM | North | | flood |  |
|  | 11:00 AM | North | | flood |  |
|  | 11:30AM | North | | flood |  |
|  | 12:00 PM | North | | flood |  |
| ***Core Sample*** | ***Entire Length*** | ***Grain Size*** | | ***Abiotic*** | ***Biotic*** |
|  | 2 layers in core | Mix of grain sizes | | Rocks  Sand  Branch  Crab shell | Small mud crab  worms |
| ***Other Items*** | Monarch butterfly flew across sample area at 11:35 AM, Clam found in marsh sediment, Rat swam across marsh to beach! Canadian geese flying around park, Mallard ducks swim around marsh. | | | | |