**Snapshot Day 10/20/15 Data**

**RIVER MILE 39.5**

**George’s Island County Park, Montrose**

**Alethea Lynch, Fox Meadow Elementary**

**80 – 3rd grade students, 10 adults**

**Latitude 41**°**14’N Longitude 73°56’40”W**

**Location:** Waterfront park in Westchester County Park

**Area:** Shoreline is rocky with brick pieces, forested, grassy with parking area

**Surrounding Land Use:** Park picnic area & boat launch – Park 70%, Industrial/Commercial 30%

**Sampling Site:** Beach, Rip Rap and Concrete Bulkhead

**Plants in area:** none listed

**Water depth**:

**River Bottom** – muddy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** |  | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | ***Reading 1°F*** | ***Reading 1°C*** | ***Reading 2°F*** | ***Reading 2°C*** |
| *10:20 AM**10:40 AM**11:00 AM**11:20 AM**12:28 PM**12:52 PM**1:09 PM* | 68707068707171 | 21232520232424 | 66686969717474 | 18202218222325 |
| Wind Speed | Time | Beaufort # | Anenometer | Direction |
|  | 10:20 AM10:40 AM11:07 AM11:20 AM11:40 AM12:00 PM12:55 PM1:09 PM | 11/2222223 | 0.9 MPH0 MPH2.1 MPH5 MPH4 MPH1.8 MPH3.2 MPH7 MPH | SWSSSWSSESESE |
| Cloud Cover | 0-25% all day - cirrus  |
| Water Surface | NR |
| Weather today | No rain |
| Weather recently | Cold temps. |
| ***Water Temperature*** | NR | 20°C19 |  |  |
| ***Turbidity - Time*** | Reading 1 | Reading 2 | Reading 3 | Average cm  |
| *Group 1-10:30AM* | 37 | 37 | 37 | 37 cm |
| *Group 2-10:49AM* | 35 | 35 | 35 | 35 cm |
| *Group 3-11:17AM* | 33 | 33.5 | 33.5 | 33.3 cm |
| *Group 4-11:33AM* | 27.5 | 27 | 33 | 29.2 cm |
| *Group 5-11:56AM* | 27 | 26 | 26 | 26.3 cm |
| *Group 6-12:38PM* | 47 | 46 | NR | 46.5 cm |
| *Group 7- 1:22PM* | 54 | 54 | 54 | 54 cm |
| ***Chemical*** |  |  |  |  |
| DO (drop count kit) | Time | Temp °C | ppm | % saturated |
| *Group 1* | NR | 20°C | 13 | oversaturated |
| *Group 2* | NR |  | 17 | oversaturated |
| *Group 3* | NR |  | 12 | oversaturated |
| *Group 4* | NR |  | 9 | 100% |
| *Group 5* | NR |  | 11 | oversaturated |
| *Group 6*  | NR | 19°C | 9 | 95% |
| *Group 7* | NR |  | 11 | oversaturated |
| *Group 8*  | NR |  | 11 | oversaturated |
| pH – No times listed - *Group 1* | 7.5 | 8 | 8 | Average 7.8 |
| *Group 2* | 8 | 7.5 | 8 | Average 7.8 |
| *Group 3* | 8 | 7.5 | 7.5 | Average 7.6 |
| *Group 4* | 7.5 | 7.0 | 7.5 | Average 7.33 |
| *Group 5* | 8 | 8 | 8 | Average 8 |
| *Group 6*  | 8 | 8 | 8 | Average 8 |
| *Group 7* | 8 | 7.8 | 8 | Average 7.9 |
| *Group 8*  | 7.5 | 8 | 8 | Average 7.8 |
| Salinity -  | NR |  |  |  |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***Size*** |  |
|  | 4 | Striped Bass |  |  |
|  | 3 | Banded Killifish |  |  |
|  | 13 | White Perch |  |  |
|  | 17 | Atl. Silversides |  |  |
|  | 3 | American Eel |  |  |
| ***Total Catch*** | ***40*** | ***Diversity*** | ***5*** |  |
| **Macros** | 23 | Blue Crab |  |  |
|  | 26 | Shrimp |  |  |
| ***Total Catch***  | ***49*** | ***Diversity*** | ***2*** |  |
| ***Tides – set stick - Start time***  | ***Height inch*** | ***End time***  | ***Height inches***  | ***Rise/Fall/******Unchanged*** |
| 10:19 AM | 26 | 10:30 | 25.5 | fall |
| 10:41 AM | 27 | 11:00  | 27  | Unchanged |
| 11:00 AM  | 26.5 |  |  | Falling |
| 11:26 AM | 26 |  |  | falling |
| 11:47 AM | 24 |  |  | falling |
| 12:28 PM | 18 | 12:40 PM | 17 | falling |
| 12:52 AM  | 19 |  |  | rising |
| ***Currents*** | 10:20 AM | ebb |  |  |
|  | 10:40  | Ebb |  |  |
|  | 11:00 AM  | Ebb |  |  |
|  | 11:20 AM |  | Flood |  |
|  | 12:40 AM  |  | Flood |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Traffic Commercial*** | 10:00 AM | Barge named Foxy the Fox | Green & Black | Northbound Full |
|  | 11:17 AM | Large Barge | White & Green | Northbound |
|  | 11:26 AM | Tugboat | White & Black | Northbound |
|  | 12:40 PM | Barge with tug | Red | Southbound - Empty |
| ***Traffic Recreational*** | 11:25 AM | Motorboat/Gas | White | Northbound |
|  | 11:28 AM | Motorboat/Gas | White | Northbound |
|  | 1:25 PM | Motorboat/Gas | White | Northbound |
| ***Other Items*** | Three trains |
| ***Observed*** | 18 crows, sparrow, heron, geese, 4 gull, 1 eagle, 1 blackbird |