**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* | 68  70  70  68  70  71  71 | | 21  23  25  20  23  24  24 | 66  68  69  69  71  74  74 | 18  20  22  18  22  23  25 | |
| Wind Speed | Time | | Beaufort # | Anenometer | Direction | |
|  | 10:20 AM  10:40 AM  11:07 AM  11:20 AM  11:40 AM  12:00 PM  12:55 PM  1:09 PM | | 1  1/2  2  2  2  2  2  3 | 0.9 MPH  0 MPH  2.1 MPH  5 MPH  4 MPH  1.8 MPH  3.2 MPH  7 MPH | SW  S  S  SW  S  SE  SE  SE | |
| Cloud Cover | 0-25% all day - cirrus | | | | |
| Water Surface | NR | | | | |
| Weather today | No rain | | | | |
| Weather recently | Cold temps. | | | | |
| ***Water Temperature*** | NR | 20°C  19 | |  |  | |
| ***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 | | | |