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

**RIVER MILE 76W**

**Bob Shepard Highland Landing Park, Highland, Dutchess County**

**Kevin Rizzo, Highland, 30 students, 8th grade Living Environment, 4 adults**



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**Location:** Bob Shepard Highland Landing Park, Highland, New York.

**Area:** New park, pier, grassy, parking lot. Park used for fishing, boating

**Surrounding Land Use:** 50 % urban/residential; 40% urban/residential; 10% park area with grass and waterfront docks

**Sampling Site:** shoreline is riprap, banks altered, concrete bulkhead, wood bulkhead, banks altered, broken concrete and docking debris, construction debris, some brick on shoreline.

**Plants in area: ~**10% plants in water (not identified)

**Water depth**: 2 ft. to 50 ft.

**River Bottom** –mostly rocky at shoreline with mud ad silt at greater depths

**Sampled 9:00 AM to 1:00 PM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Farenheit*** | ***Celcius*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | NR |  |  |  |
| Wind Speed | NR |  |  |  |
| Cloud Cover | NR | 25-50% | *Water condition* | Choppy  |
| Weather today | No rain today |
| Weather last 3 days | Cool weather but a dry season  |
| ***Water Temp.*** | NR | °F | °C |  |
| ***Turbidity – Secchi disc*** | NR  | 65 cm76 cm72.5 | Average – 71 cm |  |
| ***Long sight tube*** |  | 3431.435.6 cm | Average 33.6 cm |  |
| ***Chemical*** |  |  |  |  |
| DO - meter | NR |  |  |  |
| pH – litmus paper & pH pen | NR | Recorded at N for neutral to slightly basic |  |  |
| Salinity -  | NR |  |  |  |
| ***Fish Catch – 10feet net*** | ***Number Caught*** | ***Species*** |  ***Largest*** |  |
| NR | 2 | Striped Bass | 11 cm | **Diversity 3****Total Catch 183** |
|  | 179 | American Shad | 10 cm |  |
|  | 2 | Tessellated darter | 6 cm |  |
| ***Tides – Time*** | ***Falling/******Rising*** | ***Height in cm*** | ***Rate/change cm/min*** | ***Rate per min.***  |
| 9:30 AM 10:00 AM10:40 AM11:00 AM11:45 AM12:10 PM12:30 PM | FallingFallingFallingFallingFallingFalling | 0-43 cm-109 cm-145 cm-175 cm-299 cm-312 cm | 43/3066/4036/2030/45124/2513/20 | 1.43 cm/min1.65 cm/min1.8 cm/min0.67 cm/min4.96 cm/min0.65 cm/min |
| ***Currents*** | ***Time*** | ***Cm/sec*** | ***N/S*** | ***Comment*** |
|  | 9:37 AM9:41 AM9:53 AM | 12.884.2831.5 | NNN | Orange was thrown in different places |
| ***Ship Traffic – Commercial***  | 9:12 AM9:12 AM11:30 AM11:45 AM12:20 PM | UBL 85Arabian Sea NRBouchardCap Willy Landers | Black White RedBlackBlue | South/LightSouth/LightSouth/LightSouth/LightNorth/Light |
| ***Ship Traffic - Recreational*** | 12:25 PM | River Wrangler | White | North |