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

**(Salt Front RM 69.3)**

**RIVER MILE 76W**

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

**Kevin Rizzo, Highland, 31 students, 8th grade Living Environment**

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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:** 10 % urban/residential; 90% park area with grass and waterfront docks

**Sampling Site:** shoreline is riprap, banks altered, concrete bulkhead, wood bulkhead, banks altered

**Plants in area:** 10% water chestnut, 30% cattails, 20% dotted smartweed, 40 % purple loosestrife

**Water depth**: pretty shallow

**River Bottom** –muddy, rocky

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| ***ITEM*** | ***Time*** | | ***Farenheit*** | ***Celcius*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature | 10:45 AM  11:00 AM  11:15 AM | | 51°F  51  53 | 12°C  12  13 |  | |
| Wind Speed | 11:15AM | |  | Meter 5 mph | | North |
| Cloud Cover | 11:15 AM | | overcast >75% |  |  | |
| Weather today | 11:00 AM some rain | | | | | |
| Weather last 3 days | Rained hard one day. A little warmer than normal | | | | | |
| ***Water Temp.***  ***1 ft. H2O depth in shade, covered with plants*** | 9:50 AM | 56.7°F | | 13.7°C | | Measured twice same results |
| ***Turbidity – long site tube*** | 9:48 AM | 58 cm  28 cm | |  | |  |
| ***Chemical*** |  |  | |  | |  |
| DO - meter | 10:08 AM  11:19 AM | 9.2 ppm  7.8 ppm | | 16°C  17°C | | 90%  80% |
| pH – color match | 9:30 AM | 7.3  6.9  7.2  avg. 7.1 | | 10:40 AM | | 7.5  7.0  7.2  avg. 7.2 |
| Salinity - | 10:19 AM |  | | 113 ppm Cl- | | 204 ppm total salinity |
| Phosphate | 9:50 AM | 0.2 ppm | |  | |  |
| Nitrate | 9:50 AM | 0.3 ppm | |  | |  |
| ***Fish Catch – 10feet net*** | ***Number Caught*** | ***Species*** | | ***Largest*** | |  |
| 11:00 AM | 1 | Catfish | | 45 cm | | **Diversity 2**  **Total Catch 2** |
|  | 1 | Bluegill Sunfish | | 5.1 cm | |  |
| ***Tides*** | 10:42 AM  10:57 AM  11:12 AM | 0  -23 cm  -24.5 cm | | Overall drop  24.5 cm | | Ebbing (falling) |
| ***Currents*** | 11:25 AM | EBBING | |  | |  |
| ***Ship Traffic*** | 10:42 AM | Recreational | | White & Black | | Northbound/light |
| ***Observations*** | Living (Biotic): Geese and gulls,  Non Living (Abiotic): rocks, shells, glass and plastic | | | | | |
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