**Day in the Life of the Hudson River 10/16/14 Data**

**(Salt Front RM 65.9)**

**RIVER MILE 97**

**Sojourner Truth/Ulster Landing State Park, Town of Ulster, Ulster Co.**

**Latitude 42°N, Longitude 73°56’W**

**Deanna Rizzo, Duane Wolff Kingston High School APES 11-12th graders – 35 students, Dixon Onderdonk, retired teacher, 2 additional adults (5 total)**

**GPS 42°0’18” N - 73°56’38” W**

**Location:** Swimming beach, Sojourner Truth/Ulster Landing Park, Town of Ulster, Ulster County

**Area:** Forested,fishing pier, swimming beach, has a building with restrooms

**Surrounding Land Use:** Beach 50%; Forested area 50%; parkland with grass and picnic area

**Shoreline:** 80% sandy, 20% rocky

**Sampling Site:** beach, altered bank with concrete bulkhead, Rip rap, brick pieces in the area, slag in the area, drainage from bulkhead north of site immediately

**Plants in water area:** no plants

**Water depth**: N/R

**River Bottom**: sandy, muddy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 9:22 AM | | 8°C  46 °F |  |  |
|  | 10:15 AM | | 10°C  50°F |  |  |
|  | 11:31 PM | | 12°C  54°F |  |  |
| Wind Speed | 9:22AM | | 4 Beaufort |  | S/SW | |
| Cloud Cover | 9:38 AM | | Mostly cloudy | 51-75% |  |
| Weather today | N/R | | | | |
| Weather recently |  | | | | |
| ***Water Temperature*** | NR |  | |  |  |
| ***Water Surface*** | choppy |  | |  |  |
| ***Turbidity - meter*** | NR | 13.9 NTU  13.7  13.1 | |  | 13.6 NTU average |
| ***Chemical*** |  |  | |  |  |
| DO – meter | N/R | 11.76 mg/L | |  |  |
| pH - | ***Time*** | ***Color Match Test*** | | ***Meter Test*** | ***Average*** |
|  | 9:30 AM  10:30 AM  11:30 AM | 7  8  7.6 | |  | 7.55 |
| Salinity –LR quantabs | N/R | 36 ppm Cl- | | 65 ppm TS |  |
| ***Fish Catch***  *27.5’seine X 3.5 X/1/8 inch mesh* | ***Species*** | ***Number*** | | ***Length of largest*** | ***Seine #*** |
| ***# 1*** | 4 | Spottail Shiner | | 10 cm | ***Diversity 2*** |
|  | 1 | Herring | | 10 cm | ***Total 5*** |
| ***# 2*** | 25 | Herring | | NR | ***Diversity 1*** |
|  |  |  | |  | ***Total 25*** |
| ***# 3*** | 27 | Herring | | 6.5 cm | ***Diversity 4*** |
|  | 1 | Yellow Perch | | 7.5 cm | ***Total 31*** |
|  | 2 | Banded Killifish | | 5 cm |  |
|  | 1 | Mummichog | | 3 cm |  |
| ***# 4*** | 20 | Herring | | 3.5 cm | ***Diversity 1*** |
|  |  |  | |  | ***Total 20*** |
| ***# 5*** | 9 | Herring | | N/R | ***Diversity 1*** |
|  |  |  | |  | ***Total 9*** |
| ***# 6- sm net*** | 1 | Herring | | 7 cm | ***Diversity 3*** |
|  | 1 | Striped Bass | | 9 cm | ***Total 7*** |
|  | 1 | Spottail Shiner | | 11 cm |  |
| ***Large net*** | 3 | Spottail Shiner | | 11 cm |  |
|  | 1 | Herring | | 7 cm |  |
| ***# 7–sm net*** | 12 | Herring | | 15 cm | ***Diversity 3*** |
|  | 3 | Spottail Shiner | | 10 cm | ***Total 25*** |
| ***Large net*** | 1 | Spottail Shiner | | 9 cm |  |
|  | 8 | Herring | | 7 cm |  |
|  | 1 | Striped Bass | | 7 cm |  |
| ***#8*** | 1 | Herring | | 5 cm | ***Diversity 2*** |
|  | 1 | White Perch | | 14 cm | ***Total 2*** |
| ***Grand Total*** | ***Diversity 7*** | ***Total Catch 124*** | |  |  |
| ***Tides*** | ***Time*** | ***Depth*** | | ***Rate*** | ***Falling/Rising*** |
|  | 9:30AM | 39 cm | | Set |  |
|  | 9:50 AM | 29 cm | | 10 cm/20 min | Falling |
|  | 10:20 AM | 20 cm | | 9 cm/30 min | Falling |
| ***Currents*** | ***Time*** | ***Cm/Sec*** | | ***Cm/Sec*** | ***N/S***  ***E/F/Still*** |
| \* N/R 2015 |  |  | |  |  |
| ***Traffic - Commercial*** |  |  | |  |  |
| ***Time*** | ***Name*** | ***Color*** | | ***N/S*** | ***Loaded/Light*** |
| 10:04 AM | B260 | Red/Black | | South | Loaded |
| 10:45 AM | N/R | White | | South | Light |
| 10:40 AM | N/R | White | | North | Light |
| ***Recreational*** |  |  | |  |  |
| 11:30 AM | N/R | White | | South | Light |
| ***Other Items*** | Devil’s heads, black walnut, seaweed, duckweed, bricks, birds, fish | | | | |
| ***Core*** | ***Length*** | ***Rare*** | | ***Common*** | ***Abundant*** |
| ***9:42 AM – water 1 ft. deep*** | H2S smell  Oxidized top | Gravel  Shells  Mussels  Zebra mussel  Coal  Living vegetation | | Clay  Leaves  Wood  Brick  slag | Mud  Sand |