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

**(Salt Front RM 69.3)**

**RIVER MILE 92**

**Kingston Point Park, Kingston, Ulster County**

**GPS Latitude 41°55.6 N Longitude 73°57.90 W**

**Steve & Julie Noble, Forsyth Nature Center (Site Hosts)**

**Nick Martin, Minnewaska State Park**

**Karen Knowlton, and 2 adult chaperones Bailey Middle School – 8th grade, 75 students, 8 adults**

**Location:** Swimming Beach Kingston Point, City of Kingston, beach and parking lot

**Area:**, Used for picnics, boating, fishing, swimming, jogging, kayaking

**Surrounding Land Use**: 40% forested; 50% beach; 10% industrial/commercial

**Sampling Site:** Beach area-shoreline is sandy with some bricks, banks are altered, collected wood debris in the area, rip rap to north along brickyard shoreline. Sandy shoreline 75 feet from shoreline to parking lot, 200 feet wide with boat launch, large amount of brick debris from prior industry

**Plants in area:** no SAV in the water – all plants present were washed up on the beach. Identified spatter dock, water chestnut, duck weed, Eurasian water milfoil, water celery

**Water depth**: 6-12 inches

**River Bottom** : sandy bottom

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature | 9:56 AM | | 58°F  12°C |  |  | |
|  | 11:06 AM | | 45°F  °C |  |  | |
|  | 12:26 PM | | 48°F  8°C |  |  | |
| Wind Speed | 9:55 AM | | Beaufort #1 | 3 mph | | North |
|  | 11:04 AM | |  | 8.3 mph | | |
|  | 12:26 PM | |  | 14.5 mph | | |
| Cloud Cover | Overcast | | 75-100 % cover | | | |
| Weather today | Overcast and cool | | | | | |
| Weather recently | Rained very heavily Monday | | | | | |
| ***Water Temperature*** | Time | Temperature | |  | Taken at water’s edge in direct sunlight | |
|  | 9:40AM | 61.9°F  16 °C | |  |  | |
|  | 12:21 PM | 59.2°F  16°C | |  |  | |
| ***Water calm*** | yes |  | |  |  | |
| ***Turbidity short***  ***Site tube*** | 12:39 PM | 70 JTU  70 JTU | | Turbid brown | Average  70 JTU | |
| ***Chlorophyll*** | 10:05 AM  11:16 AM  12:31 PM | 0.7  1.0  0.5 | |  |  | |
| ***Chemical*** |  |  | |  |  | |
| DO  *Test tabs* | 9:45 AM  12:21 PM | \*0 mg/L  \*0 mg/L | | 16°C  16°C | ***\*possible faulty equipment*** | |
| pH – pen | 9:48AM  10:47 AM  12:34 PM | 8.0  8.0  8.5, 7 | | AVERAGES | 8.0  8.0  7.75 | |
| Nitrates  *Test tabs* | 9:50AM  10:47 AM  12:35 PM | 0 mg/L  0  0 | |  |  | |
| Phosphate | 9:50 AM  10:47 AM  12:35 PM | 1. ppm   0.0 ppm  1.0 -1.5 ppm | |  |  | |
| Salinity - Quantab | Not reported |  | |  |  | |
| ***Fish Catch***  *30’seine X 4 ft. with bag* | ***Number Caught- 7*** | ***Species - 2*** | | ***Largest Size*** | ***Macro-invertebrates*** | |
| *12:00-1:00 PM* | 7 | Spottail shiner | | 4.25 inches | **Diversity 4** | |
|  | 4 | Golden shiner | | 4.25 inches | **Total 14** | |
|  | 2 | Striped Bass | | 7 inches |  | |
|  | 1 | White Perch | | 5 inches |  | |
| ***Macroinvertebrates*** | 9 | Scud | |  |  | |
|  | 1 | Freshwater Snails | |  |  | |
|  | 10 | Zebra Mussels | |  |  | |
|  | 1 | Giant waterbug | |  |  | |
| Lots of water chestnut, low tide, had to go out far to haul. Did many hauls all day. Caught nothing all morning until between noon and 1PM caught 14 fish in 5 hauls. | | | | | | |
| ***Tides*** | 9:30 AM | Set at water’s edge | | Turned out tide was going out so no numeric reading | | |
|  | All morning |  | | Falling |  | |
|  |  |  | |  |  | |
| ***Currents*** | Not collected |  | |  |  | |
| ***Core Sample*** | ***Description*** | ***Rare*** | | ***Common*** | ***Abundant*** | |
| ***11:15 AM - From mud flats*** | 5.25 cm with 1.25 cm top 1.5 cm second layer | Pebbles,  leaves | | Mud,  Gravel  Brick bits | sand | |
| ***Traffic*** | 10:00AM | 1 recreational | | white | Northbound – 1 person | |
|  | 10:36 AM |  | | White & red | Southbound – 2 people | |
|  | 11:14 AM | SS Dolphin | | White & blue | Southbound 2 people | |
|  | 11:18 AM |  | | White & Blue | Southbound 2 people | |
| ***Other Items*** | 8:51 AM | Immature and adult bald eagle flying North along Kingston’s previously industrial waterfront. | | | | |
| ***Almanac entry*** |  | | | | | |