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

**RIVER MILE 120**

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**Four Mile Point Preserve, Coxsackie, Greene County**

**Jean Cardany & Jen Rausch, Coxsackie Elementary School**

**39 students 9th -2nd graders, 18 adults helpers**

**GPS Latitude 42°19’ 1.3116 secs N Longitude 73°47’ 8.0484 secs W**

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**Rocky shoreline**

**Location:** Four Mile Point Preserve, Coxsackie, Greene County,NY

**Area:** Forestedpark space with grassy area, used for hiking, picnics

**Surrounding Land Use**: 100% small rural park preserve

**Sampling Site:** Shore is rocky, lots of vegetation (forested)

**River Bottom** : pebbles and rocks

**Plants in water:** none

**Water Surface:** calm

**Note:** Sampling area is a protected cove back from the main stem of the river

**Observations:** few water chestnut seeds, bricks, shale like rocks covered the area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:25AM10:43 AM11:58 AM | 10°C15°C16 | 50 °F59°F62 F |  |
| Wind Speed | no wind | Beaufort 0- |  | S |
| Cloud Cover | 51-76%  |  |
| Weather today | No rain |
| Weather recently | Very cold; below 30degrees night of 10/18 and morning of 10/19 |
| ***Water Temperature*** | 10:13 AM10:44 AM11:20 AM | 10°C10°C16°C | 50°F50°F56°F |  |
| ***Turbidity long******Site tube*** | 10:04 AM10:40 AM11:20 AM | 31 cm32 cm33.6 cm |  | 32.2 cm Avg |
| ***Chemical*** |  |  |  |  |
| **DO** ***Salifert kit*** | **Time** | **Temp °C** | **DO**  | **% saturated** |
|  | 10:13AM10:44 AM11:20 AM | 10°C16°C16°C | 12 ppm 88 | 105%80% 80% |
| pH – Litmus Paper | NR |  |  | Average 6 |
| Salinity - Quantab | 10:13 AM10:44 AM11:20 AM11:50 AM | 44 ppm Cl-38 ppm Cl-44 ppm Cl-38 ppm Cl- | 79 total salinity69 total salinity79 total salinity69 total salinity | average 74 ppm total salinity |
| ***Fish Catch****35’seine X 4 ft.*  | ***Number Caught-*** | ***Species -*** | ***Largest Size*** | ***Diversity & Totals*** |
| ***9:44AM-11:58 AM******10 pulls***  | Nothing caught |  |  |  |
| ***Tides*** | 9:56 AM | 34 cm | start |  |
|  | 10:24 AM | 23 cm | falling |  |
|  | 10:40 AM | 18 cm | Falling  |  |
|  | 10:58 AM | 12 cm | Falling |  |
|  | 11:15 AM | 6 cm | Falling |  |
|  | 11:43 AM | Out of water | falling |  |
| ***Currents – data collected in a protected cove*** | ***Time*** | ***Cm/30 secs*** | ***Cm/sec*** | ***Knots – Ebb Flood*** |
| 10:04 AM | 429 cm/30 sec | 14.3 cm/sec |  |
| 11:34 AM | 315 cm/30 secs | 10.5 cm/sec |  |
| ***Sediment Core***  | ***Length*** | ***Description*** | ***Top*** | ***Bottom*** |
| ***11:17 AM*** |  8 cm core -  | H2S smellOil Oxidized top | Gravel & Loose | Gravel,mud, softer |
|  |  |  | MudSandGravelpebbles | MudSandgravel |
| ***Shipping******Commercial*** | 9:46 AM | Bouchard – red & black | southbound | Light - empty |
|  | 9:48 AM | Sedrata | Northbound | Loaded |
|  | 10:43 AM | Barge | southbound | Loaded with piece of TZ bridge on it |
| ***Recreational***  | 9:46 AM10:15 AM  | Yacht -Sailboat | SouthboundSouthbound |  |