

**Day in the Life of the Hudson River 10/10/13 Data  
(Salt Front RM 69.3)**

**RIVER MILE 23**

**Kinnally Cove & MacEachron Waterfront Park, Hastings-on-Hudson**

**Melissa Shandroff, Hastings High School APES 11<sup>th</sup>-12<sup>th</sup> grade, 70 students, 4 adults**

**Latitude 40° 59' 52" N, Longitude 73° 53.03" W**



**Observations & Sketches:**  
Carefully sketch one species OR Describe your catch i.e. the diversity, a specific species, the size.

**Location:** Kinnally Cove, Hastings-on-Hudson, Westchester County

**Area:** Beach area with riprap shoreline, next to the park – used both spaces. Beach is totally covered during high tide.

**Surrounding Land Use:** 50% industrial/commercial (next to old Anaconda site) but mainly parking lot now, 15 % forested, 10% grassy, 25% beach

**Sampling Site:** beach, banks altered, riprap on

shoreline, bulkhead

**Plants in area:** grass and weeds

**Water depth:**

**River Bottom** – sandy/rocky bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>				
Air Temperature	1:55 PM	62.8 °F 17.12°C		
Wind Speed	1:58 PM Beaufort 2	7.2 kts	28 °N	
Cloud Cover	Overcast all day >75%			
Weather today	2:14 PM overcast and cool			
Weather recently	Has been sunny and warm over the last 2 days			
<b>Water Surface</b>				

<b><i>Turbidity – long site tube</i></b>	1:22 PM	35.0 cm 40.0cm		Average 37.5 cm
	1:12 PM	30 cm 30 cm		Average 30 cm
<b><i>Chlorophyll</i></b>	1:45 PM	0.4		
<b><i>Water temperature</i></b>	12:35 PM	66.2 °F 69.8 °F	19°C 21°C	<b>Avg:</b> 68°F 20°C
<i>Very cloudy and hardly any sun</i>	1:14 PM	66.2°F 67.1°F	19°C 19.5°C	66.65F 19.25°C
	1:50 PM	64.4°F 65.3°F	18°C 18.5°C	64.85°F 18.25°C
<b><i>Chemistry</i></b>				
<i>pH - - 1:50 PM</i> 3 methods	Strips Kit- Wide Pen	6 6 7.6	6 7	Average 6.5
<i>DO</i>	1:18 PM	10 ppm	19.25°C	106% saturation
	1:35 PM	8 ppm	16	80%
	2:08 PM	8 ppm	18.25	85%
<i>Salinity -</i>	1:00 PM	Hydrometer Refractometer	11 ppt 12 ppt	
<i>Nitrate – LaMotte Kits</i>	2:03 PM	2 ppm 2 ppm		
<i>Phosphate</i>	2:18 PM	1.5 ppm 1 ppm		
<b><i>Fish Catch</i></b> Seine 9 ft. (20 ft. pull) Dip net, minnow trap	<b><i>Number Caught - Sadly no fish caught</i></b>	<b><i>Species</i></b>	<b><i>Macro-invertebrates</i></b>	
	PM		Scud Cranefly 2 Bluecrabs	
	1:24 PM		Scud Truefly 1 Bluecrab M	
<b><i>Sediment Cores</i></b>	<b><i>Length/ description</i></b>	<b><i>Abundant</i></b>	<b><i>Common</i></b>	<b><i>Rare</i></b>
	12.8 cm no layers oil look	Sand	Gravel	Pebble
<b><i>Tide</i></b>	1:20 PM		90 cm	
	1:35 PM	Falling	89 cm	0/067 cm/min
<b><i>Currents</i></b>				
<b><i>Time</i></b>	<b><i>Cm/60 secs</i></b>	<b><i>Cm/sec</i></b>	<b><i>Knots</i></b>	<b><i>N/S</i></b>

				<b><i>Ebb/Flood Still</i></b>
1:28 PM	450 cm/30 sec	15 cm/sec	0.292 knots	Flood
<b><i>Shipping</i></b>	2:10 PM	Couldn't see name	White	North - light
<b><i>Observations</i></b>	<p>A lot of rocks here seemed that they were placed rather than naturally occurring.  Students noted that the tides and weather will affect the amount of fish in the net  Saw seagulls!</p>			