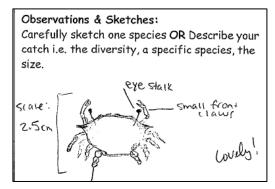
Day in the Life of the Hudson River 10/10/13 Data (Salt Front RM 69.3) RIVER MILE 23 Kinnally Cove & MacEachron Waterfront Park, Hastings-on-Hudson Melissa Shandroff, Hastings High School APES 11th-12th grade, 70 students, 4 adults

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





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

ITEM	Time	Reading 1	Reading 2	Comments	
Dhunical					
Physical					
Air Temperature	1:55 PM	62.8 °F			
		17.12°C			
Wind Speed	1:58 PM	7.2 kts	28 °N		
	Beaufort 2				
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				
Water Surface					

Time	Cm/60 secs	Cm/sec	Knots	<i>N/S</i>
Currents				
~	1:35 PM	Falling	89 cm	0/067 cm/min
Tide	1:20 PM		90 cm	
	no layers oil look			
	12.8 cm	Sand	Gravel	Pebble
	n	~ .		
	descriptio			
Sediment Cores	Length/	Abundant	Common	Rare
			1 Bluecrab M	
			Truefly	
	1:24 PM		Scud	
			2 Bluecrabs	
	1 141		Cranefly	
miniow nap	PM		Scud	
pull) Dip net, minnow trap	Sadly no fish caught			
Seine 9 ft. (20 ft.	Caught - Sadhy no		invertebrates	
Fish Catch	Number	Species	Macro-	
		1 ppm		
Phosphate	2:18 PM	1.5 ppm		
Kits		2 ppm		
Nitrate – LaMotte	2:03 PM	2 ppm		
		Refractometer	12 ppt	
Salinity -	1:00 PM	Hydrometer	11 ppt	
	2:08 PM	8 ppm	18.25	85%
	1:35 PM	8 ppm	16	80%
	1,101111	- ° PP	17.25 0	saturation
DO	1:18 PM	10 ppm	19.25°C	106%
5 memous	Pen	7.6		
<i>pH</i> 1:50 PM 3 methods	Strips Kit- Wide	6 6	6 7	Average 6.5
Chemistry	String	6	6	A yers as (5
		65.3°F	18.5°C	18.25°C
	1:50 PM	64.4°F	18°C	64.85°F
hardly any sun		67.1°F	19.5°C	19.25°C
Very cloudy and	1:14 PM	66.2°F	19°C	66.65F
temperature		69.8 °F	21°C	20°C
Water	12:35 PM	66.2 °F	19°C	Avg: 68°F
Chlorophyll				
	1:45 PM	30 cm 0.4		cm
	1:12 PM	30 cm		Average 30
site tube		40.0cm		cm
Turbididty – long	1:22 PM	35.0 cm		Average 37.5

				Ebb/Flood Still	
1:28 PM	450 cm/30 sec	15 cm/sec	0.292 knots	Flood	
Shipping	2:10 PM	Couldn't see	White	North - light	
Observations	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!				