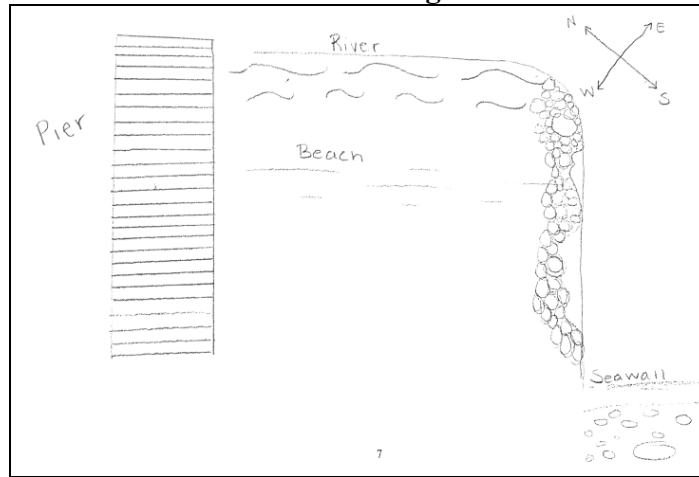


**Day in the Life of the Hudson River 10/12/17 Data
(Salt front ~ RM 65)
RIVER MILE 39**

**Riverfront Park, Stony Point Marina, Stony Point, Rockland
Jeanne Maguire, RCC Environmental Science Students through North Rockland
HS – 49 12th grade students, 6 adults
Latitude N 41.2245828 - Longitude W 73.9639967
North Rockland High School**



Location: Stony Point Marina Riverfront Park, City of Stony Point in Rockland County

Area: Located along the side of the road at the south end of the marina – Forested in the wider area, Pier, Grassy, Parking Lot

Surrounding Land Use: 40% urban/residential, 40% beach, 40% picnic and park

Sampling Site: Beach sandy and rocky near shore with rip rap edges.

Shoreline: Sandy beach, pier, shoreline RipRap.

Plants in area: No plants in the water, on the shore line: Water celery 50%, water chestnuts 20%, purple loosestrife 5%, Bur-reed 5%, jewelweed 5%, 15% other

Water Depth: 3 ft.

River Bottom –sandy and muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:37 10:50	55°F 59	12.7°C 15.01	
Wind Speed		8.2mph	NE	
Cloud Cover		Mostly Cloudy		Brief periods of sunshine
Weather today	No rain, mostly cloudy			
Weather recently	It has rained the evening before and this morning			
Water Surface	Choppy			
Water Temperature	9:34 10:02	23°C 23	73.4°F 73.4	

	10:22 11:11	19 20	66.2 68	
Turbidity – Long sight tube	10:00-11:25	23cm 24.6 19.2	Average: 22.3	
Chemical				
DO	10:02	23°C	9 ppm	85% saturation
pH <i>LaMotte kit</i>	10:00-11:00	8.0 8.0 8.0	Average: 8.0	Average 7.6
Salinity – <i>High Range quantabs</i>	9:18 AM-7.6 units 10:01 AM-8.8 units	.511%NaCl ⁻ .995	3099 ppm Cl- 6035 ppm Cl ⁻	5598 ppm TS 10903 ppm TS
Fish Catch- 9:05-11:30 AM	Number Caught	Species Fish	Size of largest	Seine
25ft seine net	23	Silversides	2.0in 5.1cm	DIV 3
3 fish per pull on average	4	White Perch	5 12.7	TOTAL: 35
14 seines total	8	Striped Bass	5.5 14.0	
		Invert		
	1	Blue Crab	M 1.5cm	
	DIV 1	Total Inverts 1		
Tides	Time	Height in cm	Rate of Tidal Change (cm/min)	Rising, Falling, unchanged
	9:08 9:20 10:00 10:11 10:25 10:34 10:44 11:32 11:47	60 58 50 48 50 50 50 50 55	-0.17 -0.2 -0.18 0.14 0 0 0 0.33	Falling Falling Falling Rising Unchanged Unchanged Unchanged Rising
Current	Time	Cm/sec	Kts	Ebb/Flood N/S
	9:14 9:35 10:07 10:30 10:50	2.6 24.8 7.5 10.5 6.3	0.05 0.42 0.15 0.20 0.12	Ebb-South Ebb-South Ebb-South Ebb-South Ebb-South
Notes: We had wind pushing the water to the shoreline which was east of the river channel. Also there is a pier at our site.				
Boating and Shipping	Type of Ship (Commercial/	Name	Northbound/ Southbound	Light/loaded

	<i>Recreational)</i>			
10:10	R	Sailboat	South	Light
10:23	R	Speedboat	South	Light
10:56	C	Barge	South	Loaded
11:04	R	Yacht	North	Light
11:30	R	Sailboat	South	Light
11:54	C	Barge	South	Loaded (gravel)
11:55	R	Speedboat	South	Light
Other Items of Interest	23 Red Billed Gulls 9 Mallards 2 Canadian Geese America Crow 10 European Starlings 1 Peregrine Falcon		1 Yellow Rumped Warbler 20 Housesparrows 1 Juvenile Bald Eagle 1 Lesser blackbilled gull 8 Turkey Vultures 1 Northern Mockingbird	