

**Day in the Life of the Hudson River 10/16/14
(Salt Front RM 65.9)
RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County
Jim Herrington, Norrie Point Environmental Center
Maribel Pregnall, Arlington High School
21 High School 10-12th graders, 5 adults
41.840248° N - 73° 930992°W**



Location: Sampling done Norrie Cove and the SW corner of Norrie Point Env. Center Patio. East side of Hudson far from the main channel in a protected cove
Area: Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove, facing south onto the HR, bordered by RR embankment, parking lot & the environmental center.
Surrounding Land Use: 85% Forested; 15% Parking, road and building
Sampling Site: Banks altered, Rip Rap - cove is muddy with some riprap and west side is rocky
Shoreline: beach area, shore with bulkhead, shoreline rip rap, banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove, piping entering river area
Plants in area: all had died back- lots of detritus on shore – 100% water chestnut detritus
River Bottom –muddy and rocky on west side

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical	Time			
Air Temperature	10:02 AM 10:52 AM	20°C 20°C	68°F 68°F	
Wind Speed	10:02AM 10:54AM 12:15 PM	1.2 mph 2.2 mph 11.5 mph	South South	Beaufort #1
Cloud Cover	Overcast >75%			
Weather today	Cloudy and light rain			
Weather recently	Very warm and humid - unseasonable			

Water calm	Started calm then wind picked up and choppy			
Water Temperature – cloudy	9:30 AM 10:30 AM 11:55 AM	18°C 18 18	65°F 65 65	
Chlorophyll	9:30 AM 10:30 AM 11:55 AM	0.4 0.4 1.5		
Turbidity	TIME	Cove	River	
Brown! Very low visibility	9:30 AM 10:30 AM 11:55 AM	38.5 cm 39.1 34.45 cm	38.1 cm 47.8 cm 55.5 cm	
Chemical				
DO (drop count)	9:30 AM 10:30 AM 11:55 AM	8 mg/L 8 mg/L 8 mg/L	18°C 17-18 18	85% 85% 85%
pH –	Time	Color match	Vernier probe calibrated	
	9:30 AM 10:41AM 11:55 AM 12:15 PM	8.0 8.0 8.0 8.0	8.0 8.6 8.09 8.1 cove	7.35 by dock
Salinity	Time	Chloride	Total Salinity	
Quantabs	10:40 AM 10:00 AM 12:30 PM	31 ppm 31 ppm 31 ppm	56 ppm 56 ppm 56 ppm	
Conductivity with vernier probe- Read as uS/cm	9:40 AM 10:43 AM 12:14 PM 12:15 PM	233.3uS 205 uS 200.5 uS 216 uS	(cove) (in front of platform dock)	

Fish Catch	9:30 AM	10:30 AM	12:30 PM	Species Totals
Striped Bass	1	1		2
Banded Killifish			3	3
Blueback & Alewife	50			50
Pumpkinseed		1		1
Bluegill Sunfish			1	1
Log Perch		2	1	3
Golden Shiner	2	1	1	4
Tesselated Darter			2	2
White Perch		1		1
River Herring		5	50	55
Shad	2	1	5	8
Spottail Shiner		3	50	53

Smallmouth Bass		1		1
Northern Pike			1	1
Blue Crab			1 (Male) (4~)	1
Diversity & Totals	<i>Div – 4 Totals - 55</i>	<i>Div – 9, Totals-16</i>	<i>Div – 9 + crab Totals – 114 + crab</i>	<i>Div 15 +crab Totals - 185 + crab</i>
3 seines – 6 mins. pulled 30-35 ft. across & 25 yds.				
Tides	<i>time</i>	<i>cm</i>	<i>Rising/Falling</i>	<i>Cm difference</i>
	8:45 AM 9:28 AM 9:57 AM 10:16 AM 10:24 AM 10:40 AM 11:07 AM 12:00 PM	49 cm 44 cm 42 cm 40.5 cm 36.5 cm 34.5 cm 31 cm 26 cm	Ebbing all morning	0 5 cm 2 cm 1.5 cm 4 cm 2 cm 2.5 cm 5 cm
Currents	<i>Times</i>	<i>Cm/30 sec</i>	<i>Cm/sec</i>	<i>Kts – N/S</i>
*windy	9:49 AM 9:52 AM *9:55 AM 10:40 AM 10:45 AM 10:50 AM *12:10 PM	220/30 290/30 100/30 87/30 53/30 49/30 10/30	7.3 cm/sec 9.7 cm/sec	0.14 South 0.19 South Still South South South Still
Core	<i>Length Desc</i>	<i>Rare</i>	<i>Common</i>	<i>Other Items</i>
	23 cm	Sand Gravel Pebbles	Clay Mud Wood	Shells Mussels Zebra mussel (shell) Macros Brick
Shipping	Type	Name	North/South	Loaded /Light
10:34 AM	Wooden older looking yacht	~40 ft. cruiser	North	
11:00 AM	DEC Boat		sampling off Esopus Island and then headed North	
11:47 AM	US Coastguard cutter	Penobsco t Bay	Southbound	
Other	Lots of devil's heads, lots of water chestnut debris, cormorants			