

**Day in the Life of the Hudson River 10/20/15**  
**RIVER MILE 84.5**  
**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County**  
**Jim Herrington, Norrie Point Environmental Center**  
**Maribel Pregnall, Arlington High School**  
**22 High School 12<sup>th</sup> graders, 5 adults**  
**Shannon Considine, Poughkeepsie High School**  
**18 High School students**  
**41.8319 N – 73.9425W**



**Northern Pipefish Netted well up into the freshwater section of the Hudson!**



**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:** 90% Forested; 10% Parking lot, road and building

**Sampling Site:** Front banks altered, Rip Rap. Cove is very 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 water chestnut had died back leaving only detritus; some water milfoil (several big patches 10X10 ft.; Some water celery in rocky river side but none in cove.

**River Bottom** –50% muddy and 50% rocky

**Water Depth** – 2 ft.

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>	Time			
Air Temperature	10:19 AM	14°C	57.2°F	
	11:00 AM	14°C	57.2°F	

	12:40 PM	20°C	68°F	
Wind Speed	10:25 AM	Anemometer 4.3 mph	SE	
Cloud Cover	Partly cloudy 26-51%			
Weather today	No precip			
Weather recently	Very cold both 10/18 and 10/19 snow flurries and temps. Down to teens			
Water Surface	Choppy			
<i>Water Temperature – cloudy</i>	10:19 AM 11:00 AM 12:00 PM	14°C 14 14	57.2°F 57.2°F 57.2°F	
<i>Turbidity</i>	<b>TIME</b>	<b>Cm</b>		
<i>When 2 barges went by visibility went to 6-8 cm</i>	10:19 AM 11:00 AM 12:00 PM	34 cm 34 cm 34 cm		
<i>Chemical</i>				
<b>DO - (Hach drop count)</b>	ALL DAY	8 mg/L	14°C	80%
<b>pH – indicator solution</b>	<b>Time</b>	<b>Reading #1</b>	<b>Reading #2</b>	<b>Average</b>
	10:19 AM 11:00 AM 12:00 PM	7.2 7.2 7.4	7.4 7.5	Avg 7.3 Avg 7.35 Avg 7.4
<b>Salinity</b>	<b>Time</b>	<b>Chl- units</b>	<b>Chloride</b>	<b>Total Salinity</b>
<b>Quantabs</b>	10:19 AM 11:00 AM 12:00 PM	1.4 1.5 1.5	39 ppm 46 ppm 46 ppm	70 ppm 83 ppm 83 ppm
<i><b>Fish Catch – 9 pulls ~50 ft. net</b></i>	<b>10:20 AM</b>	<b>11:19 AM</b>	<b>12:30 PM</b>	<b>Species Totals</b>
<i><b>Striped Bass</b></i>	<b>2</b>	<b>3</b>		<b>5</b>
<i><b>Banded Killifish</b></i>	<b>6</b>	<b>1</b>	<b>1</b>	<b>8</b>
<i><b>White Catfish</b></i>	<b>2</b>		<b>4</b>	<b>6</b>
<i><b>Brown Bullhead</b></i>	<b>1</b>	<b>4</b>	<b>5</b>	<b>10</b>
<i><b>Pumpkinseed</b></i>	<b>3</b>	<b>1</b>		<b>4</b>
<i><b>Bluegill Sunfish</b></i>	<b>2</b>	<b>1</b>		<b>3</b>
<i><b>Tesselated Darter</b></i>		<b>1</b>	<b>3</b>	<b>4</b>
<i><b>White Perch</b></i>	<b>1</b>	<b>3</b>		<b>4</b>
<i><b>Spottail Shiner</b></i>	<b>15</b>	<b>7</b>	<b>4</b>	<b>26</b>
<i><b>Northern Pipefish</b></i>		<b>1</b>		<b>1</b>
<i><b>Largemouth Bass</b></i>			<b>1</b>	<b>1</b>
<i><b>Blue Crab</b></i>		<b>1 Male</b>		<b>1</b>

<b><i>River Herring &amp; Shad</i></b>	<b>Caught &amp; returned</b>	<b>Caught &amp; returned</b>	<b>Caught &amp; returned</b>	<b>&gt;25 (use #25)</b>
<b>Fish Diversity &amp; Totals</b>	<b><i>Div – 8 Totals - 33</i></b>	<b><i>Div – 9, Totals-22 + 1 crab</i></b>	<b><i>Div – 6 Totals – 18</i></b>	<b><i>Div 13 +crab Totals - ~98 +1 crab</i></b>
<b>Tides</b>	<b><i>time</i></b>	<b><i>cm</i></b>	<b><i>Rising/Falling</i></b>	<b><i>Cm difference</i></b>
	10:00 AM 10:50 AM 11:00 AM 12:10 PM 12:40 PM	20 cm 15 cm 13 cm 6 cm 4 cm	Ebbing all during sampling	0 5 cm 2 cm 7 cm 2 cm
<b><i>Currents</i></b>	<b><i>Times</i></b>	<b><i>Cm/30 sec</i></b>	<b><i>Cm/sec</i></b>	<b><i>Kts – N/S</i></b>
Ebbing whole time	10:15 AM 12:18 PM	106 cm 148 cm	3.5 cm/sec 5 cm/sec	0.16 South 0.1 South
<b><i>Shipping - Commercial</i></b>	<b><i>Type</i></b>	<b><i>Name</i></b>	<b><i>North/South</i></b>	<b><i>Loaded /Light</i></b>
11:10 AM	Barge with tug	Black/ Red	South	Light
12:19 PM	DEC Electro-shocker Whaler		North	
<b><i>Shipping - Recreational</i></b>	<b><i>Type</i></b>	<b><i>Color</i></b>	<b><i>North/South</i></b>	<b><i>Note</i></b>
9:50 AM	Sailboat	Red	North	
11:13 AM	Motorboat	Red/ White	South	~18 ft
11:19 AM	Pleasure boat	White	South	
12:20 PM	Small Yacht	White	South	~20 ft.