

**Snapshot Day 10/7/08 Data  
(Salt Front RM 63.4)  
RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County  
Jean Villa McAvoy & Laurie Fila, Hudson River National Estuarine Research  
Reserve (HRNERR)**

**Miriam Strouse, Oakwood School & Poughkeepsie HS (19 students – 6<sup>th</sup>-8<sup>th</sup>)  
Bryan Woods, Poughkeepsie High School (17 students AP Bio)  
N41°51minutes W73°54 minutes**

**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:** 100% State Park

**Sampling Site:** Banks altered, Rip Rap

**Shoreline:** covered with vegetation (some duckweed on surface, water celery in the bay-mostly uprooted), banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove

**Plants in area:** 7% of water in sampling site is covered with plants.

Trapa Natans – 15%

Duckweed – 15%

Spiny Naiad - ~5%

Eurasian Water Milfoil - 12%

Phragmites – fringe along head of cover

Narrow leaved cattail

**Water depth:** 57-32 cm depth

**River Bottom** – weedy, muddy and rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>	Time			
Air Temperature	10:00 am	60°F		
	10:43 am	61°F		
	11:52 am	72°F		
	12:32 am	75°F		
Wind Speed	Beaufort #1	1-3 knots		North
Cloud Cover	none			
Weather today	Clear mostly – some clouds 10AM			
Weather recently	warm and mild			
Water calm	Water calm			
<b>Water</b>				

<b>Water Temperature</b>	10:10 am		61°F	Sunny area depth 57 cm
	10:40 am	19°C		
	12:05 pm	20°C		
	12:55 pm	20°C		32 cm
<b>Turbidity</b>	<b>Time</b>	<b>Secchi</b>		<b>Average</b>
<b>Sight tube</b>		75.2 cm 77.9 cm 76.6 cm		76.6 cm
	10:00 AM			
	Noon	85 cm 87.3 cm 86.2cm		86.2 cm
	12:40 PM	51.3 cm 70.1 cm 77 cm		66.1 cm
<b>Chlorophyll</b>	12:15 PM	0.3	12:55 PM	0.4
<b>Chemical</b>				
DO (drop count)	10:20 am	6.0 mg/L	16°C	60%
Samples taken in direct sum	10:53 am	8.0 mg/L	19°C	85%
	12:00 pm	8.0 mg/L	20°C	85%
	12:55 pm	5.5 mg/L	20°C	60%
pH	10:10 am	7.5		
	10:40 am	7.4		
	12:05 pm	7.6		
	12:45 pm	8.0		
Salinity -drop count kit	10:10 am	15 mg/l		
	10:50 am	40 mg/L		
	12:00 pm	12.5mg/L		
	12:55 pm	15 mg/L		
<b>Fish</b>				
<b>10:15 Am</b>	<i>Banded Killi</i>	<i>11</i>		
	<i>Sunfish</i>	<i>6</i>		<b>Total 17</b>
<b>10:45 AM</b>	<i>Sunfish</i>	<i>50</i>		<i>2 giant waterbugs</i>
	<i>Banded Killi</i>	<i>11</i>		<i>2 scuds</i>
	<i>Largemouth bass</i>	<i>2</i>		
	<i>Golden shiner</i>	<i>1</i>		<b>Total 64</b>
<b>Noon</b>	<i>Banded Killi</i>	<b>78</b>		
	<i>Sunfish</i>	<b>55</b>		
	<i>Tesselated Darter</i>	<b>16</b>		
	<i>Largemouth</i>	<b>1</b>		

	<i>Spottail Shiner</i>	<i>1</i>	<i>Total 151</i>	
<i>12:45 PM</i>	<i>Sunfish</i>	<i>36</i>		
	<i>Banded Killi</i>	<i>11</i>		
	<i>Tesselated Darter</i>	<i>1</i>	<i>Total 48</i>	
<b><i>Tides</i></b>	<b><i>time</i></b>	<b><i>cm</i></b>	<b><i>Rising/falling</i></b>	
	10:00 am	57 cm	unknown	
	10:43 am	48 cm	falling	
	11:52 pm	37 cm	falling	
	12:32 pm	32 cm	falling	
<b><i>Currents</i></b>	10:00 AM	Ebb		
	10:43 AM	Ebb		
	11:52 AM	Ebb		
	12:32 PM	Ebb		
<b><i>Core sample #1 – noon</i></b>  Water depth 0-2 cm  H2S smell	<b><i>Length</i></b> 14 cm	<b><i>Common –</i></b> Clay Mud Leaves  Mix of grain sizes	<b><i>Rare</i></b> Sand Gravel Pebbles Wood Macros Living Vegetation	Top ~ 5 cm pieces of leaves  Bits of duckweed
<b><i>Traffic</i></b>	None			
<b><i>Other Items</i></b>	9:35 am	Bald Eagle		