

**Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)
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)**

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83 Seventh Graders**

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: 75% State Park; 15% Forested; 10% Beach

Sampling Site: Banks altered, Rip Rap

Shoreline: beach area, shore with bulkhead, shoreline rip rap, 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, piping entering river area

Plants in area: 2% of water in sampling site is covered with plants.

Trapa Natans – 15%

Duckweed – 15%

Spiney 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>
<i>Physical</i>	Time			
Air Temperature	10:00 am	15°C		
	10:40 am	16°C		
	12:00 PM	15°C		
	12:40 PM	19°C		
Wind Speed	Beaufort #1	1-3 knots		
Cloud Cover	cloudy			
Weather today	Cloudy but no rain			
Weather recently	warm and mild			
Water calm	Water calm			

Water Temperature	9:54 am	16°C 18°C	17°C	
	10:36 am	16°C 17°C	16.5°C	
	11:55 am	17°C 19.5°C	18.25 °C	
	12:30 pm	20 °C 18 °C	19 °C	
Turbidity Long Sight Tube	Time	cm		
Sight tube	10:06 AM	17 cm		
	10:45 AM	11 cm		
	12:40 PM	14 cm		
Chlorophyll	12:15 PM	0.5		
Chemical				
DO (drop count)	9:56 AM	3.0 mg/L	16°C	30%
Samples taken in direct sum	10:45 am	8.0 mg/L	17°C	85%
	10:50 pm	11. mg/L	17°C	115%
	12:50 pm	10. mg/L	20°C	95%
	12:09 pm	9 mg/L	19.5°C	96%
pH	9:95 am	7.0		
	10:45 am	8.0		
	12:05 pm	8.0		
	12:45 pm	8.0		
Salinity	9:53 am	0.1ppt		
-drop count kit				
Fish			4 seines	
	# of fish	size of largest	Fish Species	
	58	9.75 cm.	Banded killifish	
	21	12 cm.	Pumpkinseed sunfish	
	9	11 cm.	Shiners (unidentified)	
	8	5.5	Sunfish (unidentified)	
	8	11.5 cm.	Spottail shiner	
	5	9cm.	Tessellated darter	
	4	11.5 cm.	Large mouth bass	
	1	8.5cm.	Brown bullhead	
	1	8 cm.	Golden shiner	
			Total # fish species: 9	
			Total # fish: 115	
	# macros	size of largest	Macroinvertebrate Species	
	35	4.5 cm.	Blue crab	
	1		Spiny-cheek crayfish	

			Total # macroinvertebrate species: 2	
			Total # macroinvertebrates: 36	
<i>Tides</i>	<i>time</i>	<i>cm</i>	<i>Rising/falling</i>	
	8:30 PM	10 cm		
	10:09 PM	6 cm	falling	
	10:21 PM	6 cm	unchanging	
	10:30 PM	7 cm	rising	
<i>Currents</i>	9:54 PM	Ebb	7-10 cm/sec	
	10:09 PM	Ebb	7-10 cm/sec	
	10:50 PM	Flood		
	12:04 PM	Flood		
	12:45 PM	Flood		
<i>Core sample #1 – noon</i>	Length 14 cm	Common – Soft and gritty, it did smell like sulfur, color dark grey	Rare	
<i>Traffic</i>	11AM	Sailboat	White	south
	11:15 AM	Sailboat	White/Blue	South
	12:06 PM	Motorboat	White	South
	12:30 PM	Barge		South
<i>Other Items</i>	9:35 am	Bald Eagle		