Snapshot Day 10/2/07 Data (Salt Front RM 78.2) 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)

Johanna Tomik, Haviland Middle School (116 students 6th graders) N40°49 minutes, 53.8 seconds, W73°56 minutes, 31.5 seconds

Location: Sampling done on the southern inlet of Norrie Point. 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.

Surrounding Land Use: forested 60%; Environmental Education Center (EEC) and concrete patio, parking lots and access area 40%

Sampling Site: Seining area – large parking lot adjacent to shallows – fairly protected bay. By water chemistry area: samples collected off concrete patio adjacent to dock and EEC; Wind and weather taken from inside EEC & concrete patio between building and river

Shoreline: covered with vegetation (some duckweed on surface, water celery in the baymostly 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.

cattail duckweed water celery water chestnut sedge (unknown variety) yellow flag (iris)

Water depth: gravel and rock bottom, 3-6 feet deep where chemistry water collected **River Bottom** – gravel and rock bottom where chemistry done. Rocky and partly muddy where seining/sediment/plankton done.

ITEM	Time	Reading 1	Reading 2	Comments		
Physical	Time		Time (cont.)			
Air Temperature	9:06 am	16°C	11:20 am	22°C		
	9:44 am	16°C	11:43 am	22°C		
	10:02 am	16°C	1:00 PM	22°C		
	10:39 am	21°C	1:33 pm	23°C		
	10:56 AM	21°C	2:05 pm	26°C		
Wind Speed						

Cloud Cover								
Weather today	Clear and wa	rm						
Weather recently	warm and mild							
Water calm	Water fairly calm – small wavelets around							
Water								
Temperature	9:28 am	20°C	68°F	Two readings				
	10:30am	20°C	68°F	Two readings				
	11:03am	22°C	72°F					
	12:00pm	24°C	75°F					
	12:45 pm	23°C	73°F	Two readings				
	1:20 pm	24°C	75°F					
Turbidity	Time	Secchi		Average				
Sight tube		83 cm		74.3 cm				
		73 cm						
	9:57am	67 cm						
		60cm		46 cm				
		19 cm						
	10:45am	59 cm						
		37 cm		48.6 cm				
	11 20	48 cm						
	11:30 am	61 cm		1.5				
		13cm 14 cm		15 cm				
	1:14 pm	14 cm						
	1.14 pm	47cm		37 cm				
		34 cm		37 CIII				
	1:56 pm	30 cm						
Chlorophyll	9:30 AM	2.0						
Chemical								
DO								
(drop count)		10.0	20°C	110%				
,	9:28 am	mg/L						
	9:28 am	6.0 mg/L	20°C	65%				
	10:30 am	8.0 mg/L	20°C	70%				
	10:34 am	3.0 mg/L	20°C	35%				
	11:03 am	10 mg/L	22°C	110%				
	12:00 pm	8 mg/L	24°C	95%				
	12:45 pm	8 mg/L	23° C	105%				
	12:45 pm	8 mg/L	23°C	95%				
	1:20 pm	8 mg/L	24 °C	95%				
рН	9:39 am	7.5	11:03 am	7.5				
r	9:43 am	7.5	11:17 am	7.5				
	10:28 am	7.5	12:45 pm	7.5				
	10:30 am	7.5	1:20 pm	7.5				

Phosphate									
Nitrate									
Alkalinity									
Salinity	9:35am		,	72 mg/l					
-drop count kit	9:54 am 10:23 am			80 mg/L					
агор соинг ки			_	72 mg/L					
	1		-	72 mg/L 72 mg/L					
	11:03 am 12:00 pm 12:45 pm		-	88 mg/L					
					+				
				72 mg/L					
F: 1 · 1	1:20 pm			54 mg/L				DEC	T 1
Fish seined	Group	Grou	ıp	Group	_	oup	Group	DEC	Total
39X4 ft. X 0.375 mesh	1	2		3	4		5		
Herring	21 –	79 –		122	93		200	16 -	531
Hennig	6.5 cm	5.9 cn	n	122		cm	200	7.5cm	
Sunfish	43 –	54 –		6 –	45		50	35 –	233
	7.5 cm	8.9 cn	n	6.5 cm		cm		6.0 cm	
Banded Killifish	23 –	28 –		2 –	48		30	24 –	155
C 11 C1:	8.0 cm	7.7 cn	n	3.5 cm	0	cm	0	8.0 cm 8 –	11
Golden Shiner	0	7.5 cn	n	U	0		U	7.5 cm	11
Spottail Shiner	1 –	1 –		* 6 -	3 –		0	0	11
Spottern Similer	7.0 cm	7.5 cn	n	8.5 cm	3.0	cm			
Tesselated Darter	3 –	3 –		0	30		20	11 –	67
	6.0 cm	5.6 cn	n			cm		7.0 cm	
Brown Bullhead	1 – 9.3 cm	0		0	0		1	2 – 9.0 cm	4
American Eel	0	0		0	3 -	cm	3	1 – 7.5 cm	7
Channel Catfish	0	0		0	0	CIII	0	2 –	2
Catfigh (ungura of	0	1 –		0	0		14	9.0 cm	15
Catfish (unsure of species)	O	9.6 cm	n				14		13
Largemouth Bass	0	0		2 –	9 –		0	0	11
				8.8 cm		4 cm			
White Perch	0	0		0	12		7	0	19
C	0	0		0	6 c		0	0	3
Carp	0	U		U	38		U	0	3
Crayfish	2 –	0		0	0	CIII	1	0	3
•	8.5 cm								
TOTALS	94	169		138	240	6	326	99	1072
* not 100% sure of spe	ecies								
Tides	time		cn	cm		Rising/fallin		·	
	9:06 am		11	114 cm		unkn	own		
	9:25 am 10:01 am		10	108 cm 99 cm 92 cm		falling falling			
			99						
			92			fallir			
				1 cm		falling			
					1		_		

	11:10		80 cm		falling			
	11: 38 am		7			falling		
	12:50 pm		8	0 cm	rising			
	1:20 pm -est		8	9 cm	rising			
	1:38	pm	1	100 cm		rising		
	1:56	pm	1	14 cm	risi	rising		
Currents	Not							
	reco							
* Site is far from ma	in cha		nat	ole to calculate	curre		sit	e restrictions
Core sample		17 cm		Fine grain,		Plant		Dark gray-
		length		slightly gritty		material		black in
						in core		color,
								uniform,
								somewhat
								anoxic odor
								but not
								sulfurous
Traffic		Time		Direction				
Barge, black		10:35am	n Northbound		Empty			letters at
								bow:
								R.I.C.55
Tugboat pushing bar	ge	10:35am	1	Northbound				
					•	•		