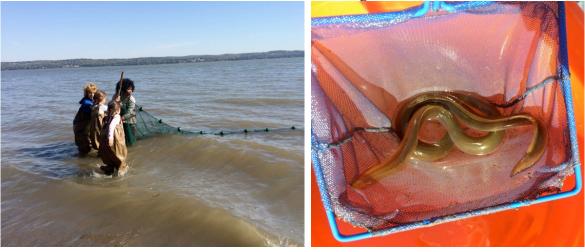
Day in the Life of the Hudson River 10/20/15 Data RIVER MILE 31 – Hook Mountain State Park Laurie Seeman & Joanne Dickey– Strawtown Art & Garden Studio



Lorraine Marden-Blue Rock School Suzanne Reynolds and St. Thomas Aquinas College pre-service teachers 4^{th,} - 6th - 27 students, total 9 adults 41°N Latitude - 74° W Longitude



Location: Nyack Beach near Hook Mountain Sandy Beach right side of riverfront area Area: Park/Boat launch, sandy beach area on the point with riprap Surrounding Land Use: 10% urban/residential; 1% forested; 90% beach Sampling Site: Sandy beach with retaining wall enclosing it and behind a lot of trees, picnic tables, sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, concrete docking. Boat launch spits the site and steep bank behind picnic table area. Sandy beach is only available during lower to mid tide. Pipe enters river ~25 ft. south of sampling area Plants in water: no plants in area Along the waterfront: brick, charcoal, slag Water depth: 3 ft.

River Bottom –rocky, sandy, muddy

ITEM	Time	Reading 1	Reading 2	Comments		
Physical			_			
Air Temperature	10:53 AM	16°C	16°C			
		60°F	60°F			
	11:39 AM	16°C	16°C			
		60°F	60°F			
	12:10 PM	16°C	16°C			
		60°F	60°F			
	1:33 PM	18°C	18°C			
		62°F	62°F			
Wind Speed	Beaufort 5	N	Wind picked up in the PM			
Cloud Cover	clear					
Weather today						
Weather last 3	No rain warmed during the day No rain, warmer that usual					
days		imer that usual				
Water	choppy					
Water	10:58 AM	63°F X 3	17°C X3	Average		
Temperature						
	11:55 AM	60°F X 3	13°C X 3	Average		
	1:06 PM	68°F X 3	18°C X 3	Average		
Turbidity – short	11:03 AM	>100 JTU	Water was extremely turbid,			
site tube	11:41 AM	>100 JTU	exceeding visibility for the kit			
	12:28 PM	>100 JTU	used which stopped at 100 JTU.			
Chlorophyll	12:07 PM	1.0				
Chemical						
DO	12:30 PM	7 mg/L	16 ° C	75%		
Drop count		C C				
pН	11:22 AM	7.5		7.25		
Indicator solution		7				
Salinity- Quantab	11:28AM	0.356%NaCl	2161 ppm Chl-	3904 TS		
Test strip	11.20/11/1	0.388 %NaCl	2356 ppm Chl-	4256 TS		
Tesi sirip		0.500 /01401	2350 ppin Cin-	4080 ppm		
				AVERAGE		
Fish Catch	15 ft. pull	Number	Species	Length of		
I ish Cutch	X 4 time	Caught	Species	largest		
Seine 20 ft. X 4ft.	11:00 AM	2	Northern	20 cm		
Mesh 0.25 inch		-	pipefish			
Seine #1		1	Flounder	7.5 cm		
		_				
Diversity 4		15	Shiner	5 cm		
Totals 20						
		2	White perch	7.5 cm		
Seine #2	12:20 PM	1	Northern	20 cm		
			pipefish			
		1				
Diversity 5		1	Atlantic	NR		

		15	American eel	NR
		1	White Perch	NR
		1	Hog choker	NR
	TOTAL FISH	Diversity 7	Total Count 25	
Macros – Seine #1	11:00 AM	2	Blue crab	2.5 cm
Diversity 3 Totals 107		5	Mud crab	
		100	Shrimp	5 cm
Macros – Seine #2	12:20 PM	NR	Blue Crab	
<i>Diversity 3</i> <i>Totals ?</i>		NR	Shrimp	
		NR	Hermit Crab	
Macros – Seine #3 -	Final PM pull	4	Comb Jellies	
<i>Diversity 1</i> <i>Totals 4</i>				
Tides	Time	Height	Rate of Change	Rising/Falling
	10:50 AM	10 cm		Baseline
	11:37 AM	15 cm	0.1063	rising
	12:10 PM	27 cm	0.3636	rising
Stick upended in current	*1:30 PM	#NR	#NR	rising
Currents*	CM/30 secs	Cm/Sec	Ebb/Flood/Still	North/South
11:05 AM	474.98 cm	15.83 cm/sec	Flood	Ν
11:48 AM	128.27 cm	4.27 cm/sec	Flood	Ν
1:35 PM	161.29	5.3 cm/sec	Flood	Ν
1:47 PM	350.52	11.68	Flood	Ν
Shipping Traffic				
Other Items				