

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
4th - 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

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:53 AM	16°C 60°F	16°C 60°F	
	11:39 AM	16°C 60°F	16°C 60°F	
	12:10 PM	16°C 60°F	16°C 60°F	
	1:33 PM	18°C 62°F	18°C 62°F	
Wind Speed	Beaufort 5	N	Wind picked up in the PM	
Cloud Cover	clear			
Weather today	No rain warmed during the day			
Weather last 3 days	No rain, warmer than usual			
Water	choppy			
Water Temperature	10:58 AM	63°F X 3	17°C X3	Average
	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 site tube	11:03 AM 11:41 AM 12:28 PM	>100 JTU >100 JTU >100 JTU	Water was extremely turbid, exceeding visibility for the kit used which stopped at 100 JTU.	
Chlorophyll	12:07 PM	1.0		
Chemical				
DO <i>Drop count</i>	12:30 PM	7 mg/L	16 ° C	75%
pH <i>Indicator solution</i>	11:22 AM	7.5 7		7.25
Salinity- <i>Quantab Test strip</i>	11:28AM	0.356%NaCl 0.388 %NaCl	2161 ppm Chl- 2356 ppm Chl-	3904 TS 4256 TS 4080 ppm AVERAGE
Fish Catch	15 ft. pull X 4 time	Number Caught	Species	Length of largest
Seine 20 ft. X 4ft. Mesh 0.25 inch	11:00 AM	2	Northern pipefish	20 cm
Seine #1		1	Flounder	7.5 cm
Diversity 4 Totals 20		15	Shiner	5 cm
		2	White perch	7.5 cm
Seine #2	12:20 PM	1	Northern pipefish	20 cm
Diversity 5 Totals 5		1	Atlantic Silverside	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	
Diversity 3 Totals ?		NR	Shrimp	
		NR	Hermit Crab	
Macros – Seine #3 -	Final PM pull	4	Comb Jellies	
Diversity 1 Totals 4				
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	N
11:48 AM	128.27 cm	4.27 cm/sec	Flood	N
1:35 PM	161.29	5.3 cm/sec	Flood	N
1:47 PM	350.52	11.68	Flood	N
Shipping Traffic				
Other Items				