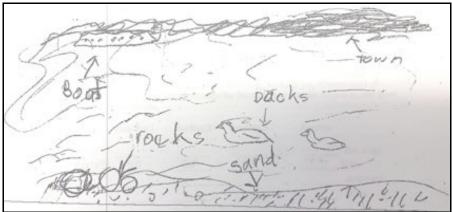
Day in the Life of the Hudson River 10/16/18 Data UPPER NYACK STATE PARK- LOWER BEACH Nyack, NY RIVER MILE: 30.4 Salt Front: ~ RM 24 Blue Rock School-52 students 4<sup>th</sup> -8<sup>th</sup> grade, 10 adults Laurie Seeman & Joanna Dickey, Strawtown Studios Charlotte Jack, Lorraine Madden, Blue Rock School Latitude 41.119759 N & Longitude – 73.912429 W



Location: Upper Nyack State Park, South Beach, Nyack, Rockland County, NY

Area: Near Hook Mountain Sandy Beach right side of riverfront area, park/boat launch, sandy beach area on the point with riprap

Surrounding Land Use: 30% forested, 50% beach, 20% parking lot

**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 tale area. Sandy beach is only available during lower to mid tide. Pipe enter river ~25 ft. south of sampling area.

Shoreline: Beach area, shoreline riprap (large rocks), concrete docking

Water Depth: 1 foot

**Plants in area:** 5% of area is covered with plants in the water (Vallisneria Americana/water celery) **River Bottom description**: sandy, muddy

ITEM	Time	Reading		Comments	
Physical					
Air Temperature	10:30 AM 12:00 PM	15 ° C 15.56 ° C	60 ° F 59 ° F		
Wind Speed: Beaufort Force		6	North	Water choppy	
Weather today	No rain, partly cloudy				
Weather recently Water Temperature	10:45 AM 11:30 AM	vs it was humid, cloudy, cold, 16, 16, 16 15, 16, 16 16, 16, 16	Avg: 16 ° C Avg: 15.6 ° C	60.8 ° F 60.08 ° F	
	12:53 PM 2:15 PM	16, 16, 16 15, 16, 15	Avg: 16 ° C Avg: 15.3 ° C	60.8 ° F 59.54 ° F	
Turbidity - short sight tube	12:53 PM	100 JTUs, 40 JTUs, 100 JTUs		Average: 80 JTUs	
Chemical					

Salinity- High Range	10:45 AM	1.0, 0.8		* Below
Quantabs	10.4571101	Estimation of Quantab		Detection for
Quantaos		Units		this method
DO – Indicator Tabs	Time	Temp	ppm DO	% saturation
DO Indicator 1405	10:15 AM	16° C	4	88%
pH – Indicator	10:45 AM	7.5, 7.5		0070
solution	10.4571101	1.5, 1.5		
Nitrates-Estuary	10:45 AM	5, 5, 5 Avg: *5 ppm		*5ppm NO <sub>3</sub> <sup>-</sup>
Wide Sampling Kit	10.10 1101	5, 5, 5 HVB. 5 ppm		is very high;
<i>(low resolution kit)</i>				is very mgn,
Phosphates- Estuary		1, 1, 2 Avg: 1.3 ppm		* Estuary
Wide Sampling Kit		-, -, -, -, -, -, -, -, -, -, -, -, -, -		wide kit is
<i>(low resolution )</i>				
Fish	Number	Name	Length of	
			longest	
Seine- 28 foot net	3	American Eel	0	
	7	Striped Bass		
	1	Brown Bullhead		
	3	Alewife		
Fish Totals	TOTAL: 14	Diversity: 4		
Macroinvertebrates	Number	Name	Length of	
	1,0000		longest	
	21	Mud Crab		1 female
	6	Blue Crab		3 females
	5	Shore Shrimp		
Macroinvertebrate	TOTAL: 32	Diversity: 3		
Totals		•		
Tides-	Time	Rising, Falling,	Height (cm)	Rate of Tidal
		Unchanged		Change
				(cm/min)
	10:30 AM	Rising	1	-
	10:45 AM	Rising	3	0.133
	11:10 AM	Rising	3	-
	11:30 AM	Rising	6.5	0.175
	11:50 AM	Rising	20	0.675
	1:15 PM	Rising	30	0.118
	1:34 PM	Rising	34	0.211
	1:54 PM	Rising	45	0.55
Current-	cm/second	Knots	North/South	Ebb/Flood/ Still
11.10.135			South	Ebb
11:48 AM	4.8	0.093	South	
11:48 AM 1:34 PM	4.8 9	0.093 0.175	North	Flood
				Flood <i>Loaded or</i>
1:34 PM	9	0.175	North	
1:34 PM Boat Traffic-	9	0.175	North	Loaded or Light
1:34 PM Boat Traffic- recreational	9 <i>Name</i>	0.175	North North or South	Loaded or