Day in the Life of the Hudson River 10/12/17 Data (Salt Front ~ RM 65) RIVER MILE 30.5 – Nyack Beach Hook Mountain State Park, Steps Nicole Laible, Brianna Rosamilia, Rockland County Division of Environmental Resources Peter Park, Nyack College Jessica Flanagan, Clarkstown North HS 14 students grades 11/12, 7 adults 41.12049N -73.911339W



FISH SAMPLING FROM SITE

Location: Nyack South Beach, Upper Nyack, Rockland County NY **Area:** Park/Boat launch, near Hook Mountain Sandy Beach by the large sitting stairs, **Surrounding Land Use**: 40% forested, 10% industrial/commercial, 40% beach – used for recreation & picnics

Sampling Site: Beach – sandy and rocky at edges, muddy offshore, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris. **Pining coming into river south of sampling site**

Piping coming into river south of sampling site

Water depth:

River Bottom –muddy, sandy, rocky **Plants:** None growing in area

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:30 AM	13°C	56°F	
	11:55 AM	15.5°C	60°F	
	12:18 PM	15°C	59°F	

Wind Speed	NR			
Cloud Cover	Mostly	51-75%		
	overcast			
Weather today	Light rain			
	in AM			
Weather last 3	Warm and			
days	rain			
duys	yesterday			
Water	9:56 AM	20.65 C		
Temperature	10:32 AM	20.05 C		
1 emperanne	12:12 PM	20.12 C		
Turbidity –	10:10 AM	42 cm		
Long site tube	10:40 AM	43 cm		
Long site moe	12:00 PM	30.4 cm		
	12:24 PM	38 cm		
Chemical	12.21111			1
DO	9:56 AM	8.72 mg/L	20.65 C	102.5 %
Drop count	10:32 AM	8.72 mg/L 8.33 mg/L	20.05 C 20.3 C	97.9%
	10.32 AM 11:44 AM	8.53 mg/L 8.51 mg/L	NR	97.976 NR
	12:12 PM	9:08 mg/L	20.12 C	105%
pH - YSI	9:59 AM	7.8	20.12 C	10370
p11 - 151	10:39 AM	7.87		
	10:39 AM 11:47 AM	7.91		
	12:15 PM	7.91		
Salinity – quantabs			0505 TO	TS = Total
8.4 quantab units	10:05 AM	4708 ppm	8505 ppm TS	
High Range	10:30 AM	4708 ppm	8505 ppm TS	Salinity
<u> </u>		Cl-	<i>a</i> ·	T (* N)
Fish Catch		Number Caught	Species	Latin Name
8:55 AM		Caught	A 41 41-	Manidia
Seine 30 ft.		19	Atlantic	Menidia
		-	Silverside	menidia
		5	Striped Bass	Morone
		5		saxatilis
		5	Northern	Synanathus
			Pipefish	fuscus
		22	White Perch	Morone
			Dec A 1	americana
		6	Bay Anchovy	Anchog
		12	D 1 1	mitchilli
		12	Banded	Fundulus
			Killifish	diaphanus
		3	Bluefish	
		1	Herring	
		2	Silver Perch	
		1	Mummichog	
FISH TOTAL	10	TOTAL	76	
DIV		CATCH		
MACROINVERT		1	Moon Jelly	
DIVERSITY		Тоо	Grass Shrimp	Palaemonetes

		numerous to		spp.
		count but		
TOTALS = Too		1	Sand Shrimp	Crangon
numerous to count				septemspinosa
		2	Clam	Mercenaria
				mercenaria
MACRO DIVERSITY	4	TOTAL COUNT	4 plus many Grass Shrimp	
Tides	Time	Change in	Change in	Rate of
		Time	Height	change
				Flood/Ebb
	9:58 AM		20 cm	
	10:24 AM	26 mins	17 cm	3cm/26 mins Ebb
RESET STICK	11:48 AM		25 cm	
	12:10 PM	22 mins	32 cm	7 cm/22 mins Flood
Currents				11000
Distance Travelled	Time	Distance from Shore	Current Speed (cm/s)	Flood/Ebb
	9:58 AM			Ebb
	10:24 AM			Ebb
	11:48 AM			Flood
	12:10 PM			Flood
Sediment Core	Time	Description	Rare	Abundant
3 feet water depth	10:45 AM	10 cm	Clay	Sand
		length	Mud	Gravel
			Brick	Pebbles
			Coal	
			Slag	
Commercial Boat	12:08 PM	Red Barge	Southbound	Loaded
	12:29 PM	Tugboat	Northbound	Loaded
Recreational Boat	11:40 AM	White Sailboat	NR	
	12:08 PM	White	Southbound	
	12.00 F WI	Sailboat	Soumoouna	
	12:38 PM	Fishing boat	Northbound	
	12:38 PM	White	Southbound	
	12.101111	Sailboat	Southoound	
Observations	Bricks,	Building a	Ducks and	
	lumps of	new bridge	crane	
	coal, slag,	which could	(sandhill?)	
	devil's	impact our		
	heads	sampling		