## Day in the Life of the Hudson River 10/12/17 Data (Salt Front ~ RM 65)

## RIVER MILE 11.5 – Fort Washington Park Katie White, Marymount School of New York 53 students 7<sup>th</sup> grade, 8 adults Latitude 40°50'46.42444" N - Longitude -73.°56'46.914"W

**Location:** Fort Washington Park just South of the George Washington Bridge

**Area:** Site is a sandy beach with rip rap adjacent to a paved jogging trail within a grassy park. Some trees on far side of jogging trail but none next to water. Very little aquatic vegetation.

Surrounding Land Use: 70% urban /residential, 25% forested, 5% beach,

**Sampling Site:** Park with a lot of trees, picnic tables, covered with vegetation, lots of riprap shore, collected wood debris. Large outflow pipe directly south of site <100 meters

Plants in water: None Water depth: 2-4 ft. Water: Choppy

River Bottom –mainly sandy and rocks, no mud this year (past years yes)

ITEM	Time	Reading 1	Reading 2	Comments	
Physical					
Air Temperature	9:40 AM	15°C			
	10:10 AM	15			
	10:45 AM	14.5			
	12:20 PM	16			
	12:55 PM	16.5			
Wind Speed –	Time	Clouds	Beaufort #	Wind m/s	
	9:45 AM	Overcast >75%	2 - N	1.2	
	10:12 AM	Overcast >75%	2 - N	1.5	
	10:47 AM	Overcast >75%	2 - N	1.6	
	12:23 PM	Overcast >75%	3 - N	3	
	12:56 PM	Overcast >75%	2 - N	2	
Weather today	Rain	Light overnight rain until 9AM			
Weather last 3 days	Weather for	Weather for past 3 days: Rainy or overcast – high ~75 degrees F			
Water	9:35 AM	20°C			
Temperature	10:00 AM	20°C			
	10:38 AM	20°C			
	12:15 PM	20°C			
	12:44 PM	20°C			
Turbidity -	9:55 AM	42.3 cm			
Long site tube	10:13 AM	43 cm			
	10:45 AM	59 cm			
	12:20 PM	86 cm			
	12:53 PM	84cm			

Chemical				
DO	10:02AM	20°C	5 ppm	50% saturation
Salifert Kit	10:28 AM	20	5	50%
(each	10:59 AM	20	7.5	85%
measurement is	12:36 PM	20	7.5	85%
avg. of 4-5)	1:07 PM	20	6	65%
pН	9:45 AM	7.5		
color match test	10:13 AM	8		
kit - (each	10:45 AM	7.7		
measurement is	12:23 PM	7.8		
avg. of 4-5)	12:53 PM	8		
Salinity		refractometer	hydrometer	
	9:40 AM	22 ppt	24.25 ppt	
	10:20 AM	$\frac{1}{20}$	23	
	10:45 AM	$\frac{1}{20}$	21	
	12:20 PM	20.5	20.25	
	12;55 PM	20	20.25	
Fish Catch	Time	Fish Species	# caught	Length cm
Seine #1	9:39 AM	Atlantic	110	10.5
Seine #1	7.57 THVI	Silversides		10.5
#2	9:49 AM	Striped Bass	1	13
#5	10:15 AM	Atlantic	24	10
113	10.13 / 1111	Silversides	24	10
#8	10:45 AM	Atlantic	2	6
110	10.43 1111	Silversides		O
#9	12:00 PM	Atlantic	44	9.5
117	12.00 1 1/1	Silversides		7.5
#12	12:33 PM	Atlantic	7	unknown
π12	12.33 1 101	Silversides	/	unknown
TOTAL DIV-	2	TOTAL	188	
TOTAL DIV -		CATCH	100	
Macroinvert	Number	Macros	Number	Additional Info
Seine #1	9:39AM	hermit crab	1	
#2	9:49 AM	Blue Crab	2	F
		Hermit crab	2	
		Swimming crab	2	
#3	10:06 AM	Blue Crab	1	Male
110	10.0011111	Swimming crab	1	171410
		Hermit crab	2	
		Mud Snail	1	
		Ctenaphore	1	
#4	10:15 AM	Swimming	3	
# <b>4</b>	10.13 AWI	Crab	3	
		Hermit crab	1	
		_		
		Mud snail	1	
	10.20 43.5	Ctenaphore	2	
II <b>/</b>	10:20 AM	Mud snail	1	
#5			1	
#5 #6	10:30 AM	Swimming crab  Mud snail	4	

		Ctenaphore	2	
#7	?	Mud snail	1	
		Blue Crab	1	Male
#8	10:45 AM	Swimming crab	1	
		Blue crab	1	F
#10	12:15 PM	Swimming crab	1	
#11	12:30 PM	Swimming crab	1	
#14	?	Swimming crab	1	
DIVERSITY	5	TOTALS 35		
Tides	9:42 AM	Rising	22.5 cm	
Data collected	10:16 AM	Rising	37	
With stick in	10:46 AM	Rising	50.5	
the sand	11:48 AM	Rising	80	
	12:24 PM	Rising	105	
	12:54 PM	Rising	110	
Currents	Cm/Sec	Ebb/Flood/Still	Note	-
9:42 AM	20.05 cm/s	Ebb	*Had trouble throwing the	
10:20 AM	1.14*	Ebb	orange far enough into the	
10:46 AM	27.46	Ebb	channel. Results are averages of	
12:27 PM	72.99	Flood	2 or 3 tosses.	
1:00 PM	41.65	Flood	The current may reflect side	
			current which v	•
			strong from noon on.	
Shipping –	9:37 AM	Cargo Ship	Docked	Loaded
Commercial	0.50.43.6	G 11 G :	NY1	T 1 1
	9:53 AM	Small Cruise	North	Loaded
		Boat to Statue		
	10:43 AM	of Liberty Coast Guard	North	Light
	10.43 AW	Coast Guard	North	Light
	12:12 PM	Coast Guard	North	Light
	12:12 PM	Cruise – Circle	South	Loaded
	12.12 1 111	Line	South	Louded
Recreational		Recreational		
	9:53 AM	Sailboat	South	n/a
	10:23 AM	Sail boat	South	n/a
		Recreational –		
	12:47 PM	Elastic Failure	North	n/a
	12:50 PM	Recreational	North	n/a