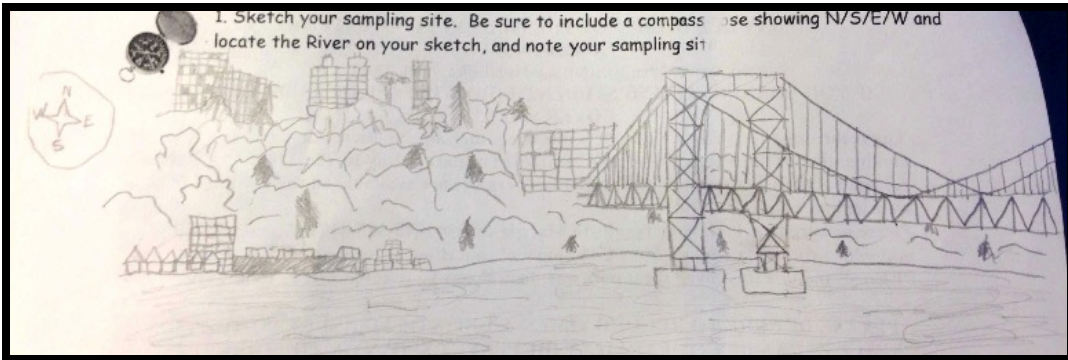


Day in the Life of the Hudson River 10/17/14 Data
RIVER MILE 11.5 – Fort Washington Park
(Salt Front RM 65.3)

Katie White, Marymount School of New York

50 students 7th grade, 7 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: Pier, grassy, park/Boat launch, used for picnics, boating and fishing

Surrounding Land Use: : 13% forested, 85% grass park land, 1% beach, 1% plants

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

Plants in water:

Water depth: varied with tide

River Bottom –sandy, muddy and rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:15AM	22°C		
	10:50 AM	22		
	11:25 AM	22		
	12:25 PM	22		
	1:20 PM	27		
Wind Speed	10:15 AM	Beaufort 1	Anem. 1.5	N
	11:00 AM	Beaufort 3	1.5	W

	11:30 AM 12:30 PM 1:15 PM	Beaufort 3/4 Beaufort 3 Beaufort 3	3 2.7 3	SW SW S
Cloud Cover	Clear AM	Partly cloudy PM		
Weather today	Cloud cover			
Weather last 3 days	Heavy rain Wed. night into Thursday (yesterday)			
Water	Mild chop to water			
Water Temperature	10:15 AM 10:45 AM 11:15 AM 12:30 PM 1:15 PM	18°C 18°C 20°C 20°C 20°C		
Turbidity - Long site tube	10:25 AM 11:15 AM 12:30 PM	64 cm 46.1 cm 64.4 cm		Averages per rotation
Chemical				
DO Drop count	10:15 AM 11:00 AM 11:45 AM 12:30 PM 1:15 PM	20°C 18 18 20 20	6 ppm 8 8 8 8	68% saturation 83% 83% 86% 86%
pH color match test kit	10:20 AM 11:15 AM 12:30 PM 1:00 PM 1:30 PM	8.0 8.0 8.0 7.0 8.0	Averages for each session	
Salinity		<i>refractometer</i>	<i>hydrometer</i>	
	10:15 AM 11:00 AM 11:45 AM 12:30 AM 1:15 PM	15 ppt 18 17 16 17	15 ppt 16 17 16 17	
Fish Catch	Number Caught	Fish Species	Length	
9 ft. full ~ 50 ft.	21	Atlantic Silversides	10.7 cm	
17 seines in all	1	Northern Pipefish	11 cm	
Diversity 2	Total Catch 22		Totals 1, 9, 12 fish in separate pulls	
	Number	Macros	Length	Sex
	4	Blue Crab	>1 inch shell	3 female, 1 male
	15	y-o-y blue	<1 inch shell	13 female, 2

		crab		male
	11	Hermit crab		
	6	Grass /Shore Shrimp		
	7	Mudsnail		
	12	Comb Jelly		
	1	Marine worm	<i>Genus Nereis</i>	
Macro – Div. 6	Totals 56			
Tides	10:15AM	Falling	59.5 cm	
	11:00AM	Falling	58 cm	0.03 cm/min
	11:15 AM	Unchanged	58 cm	0
	11:30 AM	Rising	60 cm	0.13
	11:45 AM	Rising	62 cm	0.13
	12:30 AM	Rising	72 cm	0.22
* stick fell from boat wake	12:45 PM	Rising	79.5 cm*	0.50
	1:00 PM	Rising	73 cm	0.03 cm/min calculated from 12:30 reading
	1:15 PM	Rising	73 cm	0
Currents	CM/60 secs	Cm/Sec	North/South	Ebb/Flood/Still
10:30 AM	Shoreline	5 cm/sec	N	Flood
11:15 AM	current –	0	-	Still
11:45 AM	main	7 cm/sec	N	Flood
12:58 PM	channel too	0	N	Still
1:15 PM	far out	48 cm/sec	N	Flood