

Day in the Life of the Hudson River 10/20/16
(Salt Front Hudson ~RM 80)
East RM 5.7, Gantry Plaza at Newtown Creek
Alex Pistell, Rebecca Raddock, PS 78Q - 5th – 8th grade students, 120 students, 12 adults



Location: East River, Gantry Plaza State Park, Long Island City, Queens

Surrounding Land Use: Urban 80%; Grassy 15%; Rocky Shoreline 5%

Sampling Site: Shoreline is rocky with some plants and has piers.

Plants in area: A few trees and tall grasses.

Water depth: unknown

River Bottom: unknown

AM and PM sampling groups each with 4 rotations

<i>A</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	NR	°C	AVERAGE	
Wind Speed & Direction	Group 1AM Group 2AM Group 3AM Group 4AM	Beaufort 1 Beaufort 2 Beaufort 1 Beaufort 2	4.2 mph 5.7 mph 3.3 mph 3.6 mph	N N N NE
Wind Speed & Direction	Group 1PM Group 2PM Group 3PM Group 4PM	Beaufort 1 Beaufort 2 Beaufort 2 Beaufort 2	2.6 mph 3.5 mph 2.0 mph 7.0 mph	N N N N
Cloud Cover % covered	Group 1AM Group 2AM Group 3AM Group 4AM	50 75 65 80	Overcast	
Cloud Cover % covered	Group 1PM Group 2PM Group 3PM Group 4PM	99 85 100 95	Overcast	
Weather last 3	Above average warm and dry			

days				
Water Temperature	Group 1AM Group 2AM Group 3AM Group 4AM	20°C 20 20 20	Avg. 20 C	
	Group 1PM Group 2PM Group 3PM Group 4PM	22°C 21 23 20	Avg. 22 C	
Turbidity Site Tube	Group 1AM Group 2AM Group 3AM Group 4AM	40 cm 55 60 40	Avg. 48.75 cm	
	Group 1PM Group 2PM Group 3PM Group 4PM	60 cm 68 70 65	Avg. 66 cm	
Turbidity Secchi Disk	Group 1AM Group 2AM Group 3AM Group 4AM	30 cm 47 55 36	Avg. 42 cm	
Turbidity Secchi Disk	Group 1PM Group 2PM Group 3PM Group 4PM	80 cm 48 40 65	Avg. 58.25 cm	
Chemical				
DO - chemettes	Group 1AM Group 2AM Group 3AM Group 4AM	6 ppm 7 6 6	20°C 20 20 2058	58% saturated
	Group 1PM Group 2PM Group 3PM Group 4PM	5 ppm 7 6 6	22°C 21 23 20	48% saturated
pH (test strips)	Group 1AM Group 2AM Group 3AM Group 4AM	7 5 6 6	AVERAGE 6	
	Group 1PM Group 2PM Group 3PM Group 4PM	7 6 7 6	AVERAGE 6.5	
Salinity (Hydrometer)	Group 1AM Group 2AM Group 3AM Group 4AM	27 ppt 27 24 30	AVERAGE 27 ppt	

	Group 1PM Group 2PM Group 3PM Group 4PM	22 ppt 25 30 23	AVERAGE 24.5 ppt	
Salinity (Refractometer)	Group 1AM Group 2AM Group 3AM Group 4AM	25 ppt 24 30 26	AVERAGE 26 ppt	
	Group 1PM Group 2PM Group 3PM Group 4PM	30 ppt 27 25 28	AVERAGE 28 ppt	
<i>Tides</i>		N/R		
<i>Currents</i>	Group 1AM Group 2AM Group 3AM Group 4AM	0.04 m/s 0.14 m/s 0.06 m/s 0.05 m/s		
	Group 1PM Group 2PM Group 3PM Group 4PM	0.10 m/s 0.12 m/s 0.11 m/s 0.12 m/s		