

Day in the Life of the Hudson River 10/22/19
HUDSON RIVER PARK PIER 45, MANHATTAN
RIVER MILE: 3.2
Salt Front: ~ RM 53
NYC Lab High School- Susan Price and Bianca Duec
65 students 12th grade, 2 adults
Latitude 40.73315 N & Longitude – 74.01369 W



Location: Hudson River Park, Pier 45, Manhattan, NY
Area: Christopher Street Pier at the southside end of the pier where the “gazebo” is at the foot of the pier. There is a combined sewage overflow discharge at this site.
Surrounding Land Use: 100% Hudson River Park with walkway and small grassy area. 100% Commercial/Urban
Sampling Site: Recreational Pier
Shoreline: Banks, altered with bulkhead, mainly metal and wooden pier
Water: choppy, but no breaking crests
River Bottom: Muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>	<i>Comments</i>	
Physical				
<i>Air Temperature</i>	1:00 PM	17 °C		
	1:45 PM	17.3 °C		
<i>Wind Speed:</i>	1:00 PM	2.6 m/s	Southwest	Beaufort 2 from 1-2pm
	1:45 PM	1.8 m/s	Southwest	
<i>Weather today</i>	Overcast, no rain			
<i>Weather past 3 days:</i>	It rained two days prior to field work			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
*students were confused how to measure tides	12:53 PM	NR	-	
	1:10 PM	Rising	+27 cm	
<i>Current-</i>	<i>Time</i>	<i>cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
*students had some trouble with this station	1:12 PM	NR	Slack	Still
	1:17 PM	2.45 cm/s	Slack	Still
<i>Water Temperature</i>	1:33 PM	6 °C, 6 °C, 6 °C		
	1:48 PM	6 °C, 6 °C, 6 °C		
<i>Turbidity- long sight tube</i>	1:08 PM	64 cm, 84.25cm, 43 cm		Avg: 63.75 cm
	1:37 PM	76.8 cm, 87.6 cm, 79.3 cm		Avg: 81.2 cm
Chemical				
<i>Salinity- Refractometer</i>	1:27 PM	16 ppt, 16 ppt, 16 ppt		Avg: 16,000 ppm
	1:33 PM	15 ppt, 16 ppt, 15 ppt		Avg: 15,300 ppm
<i>DO – CheMets</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	2:03 PM	6 °C	6, 6, 6, 7	Average 6 ppm

<i>pH</i> – API saltwater testing kit	2:00 PM	8.1, 8, 8	Average 8 ppm	
<i>Nitrates</i> - API saltwater testing kit	1pm-2pm 2:30 PM	0 ppm 5 ppm	*API kit designed for Aquaria not field	
<i>Biological</i>				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Fish traps Rod and Reel				Set the fish trap overnight. Reset the trap at 1:30 pm for an hour. Nothing.
Fish Totals	TOTAL: 0	Diversity: 0		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0		
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other Features</i>
	NA			
Boats	Time	Name/Color	North/South	Loaded/Light
	NR			
Observations	There was construction going on right at the base of the pier.			