

Day in the Life of the Hudson River 10/14/21

Pier 1 Lighthouse Museum, Staten Island

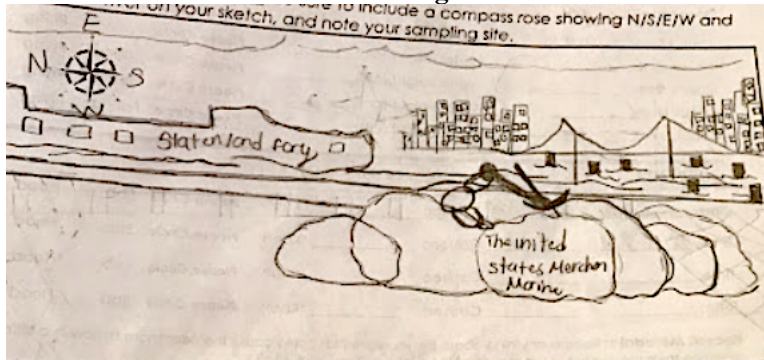
RIVER MILE: -4.5

Salt Front: ~ 49

Dave Scheffler & Curtis High School

12 students & 2 adults

Latitude 40.640951 N & Longitude – 74.073463 W



Location: Pier 1 Lighthouse Museum, Staten Island, NY

Area: Pier with parking lot.

Surrounding Land Use: 100% Urban

Sampling Site: Wood bulkhead, concrete bulkhead, banks altered, riprap

Shoreline: 20% sandy, 30% muddy, 50% rocky.

River Bottom: Rocky

Water : Calm

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	10:23 AM	28.5 ° C		83.3 ° F	
<i>Wind Speed:</i>	10:23 AM	Anemometer 2.6 mph		Beaufort NR	Direction SW
<i>Weather today</i>	10:23 AM	<25% cloud cover		No rain	
<i>Weather the past 3 days:</i>	Cloudy, humid, 70-80 degrees				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	10:10 AM- 12:11 PM	Rising Rising		213.36 cm 243.84 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	10:39 AM 12:18 PM	4.76 3.41	0.093 0.068	South South	Ebb Ebb
<i>Water Temperature-</i>	10:58 AM	22° C		72° F	
<i>Turbidity- Long Sight Tube</i>	10:51 AM	101.5 cm			
Chemical					
<i>Salinity- Hydrometer</i>	11:03 AM	18.33 ppt			
<i>Standardized Salinity- NR</i>					
<i>DO – NR</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% Saturation</i>
	NR	22° C		NR	NR

<i>pH – Color Match Kit</i>	11:12 AM	7.67			
<i>Nitrates- strip tests – not a good tool for the field</i>	11:22 AM	Test results were extremely high 1 mg/L			
<i>Phosphates-strip tests - not a good tool for the field</i>	11:12 AM	Test results were extremely high 25mg/L			
Biological					
Fish -	Number	Name	Length of longest	Length of smallest	
*Oyster Cage					
Fish Totals	TOTAL: 0	Diversity: 0			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
Macroinvertebrate Totals	TOTAL:0	Diversity: 0			
Sediment Core					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR	No	Yes	NR	Abundant: clay Common: mud, sand	Common: macroinvertebrates, shells, living vegetation
Boats-NR					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	10:18 AM	Large Boats (unable to get name)	Dark Grey	Southbound	Loaded
	10:18 AM	Large Boats (unable to get name)	Red, Dark Blue & white	Southbound	NR
	11:22 AM	Large Boats (unable to get name)	White & Blue	Southbound	Light